ORDER NO. MD0402049C8

Service Manual

AV Control Receiver

*DOLBY DIGITAL PRO LOGIC II

**DIGITAL dts SURROUND

SA-HT05EP / SA-HT05EB / SA-HT05EG

Color

(S).....Silver Type

SPECIFICATIONS

Specification

■ AMPLIFIER SECTION

RMS output power of each channel driven

240 V (for United Kingdom only)

10 % total harmonic distortion

1 kHz front CH

55 W (6 Ω)

1 kHz surround CH

55 W (6 Ω)

1 kHz center CH

160 W (6 Ω)

100 Hz subwoofer CH

220 W (4 Ω)

Total RMS output power **600 W**

Power output

240 V (for United Kingdom only)

DIN 1 kHz (T.H.D 1%)

Front CH

2 x 25 W (6 Ω)

Subwoofer CH

140 W (4 Ω)

Total DIN Output Power

190 W

Total Harmonic Distortion

Half Power at 1 kHz (Front CH)	
Input sensitivity	
DVD, DVR/VCR, TV, GAME/AUX	450 mV, IHF'66
S/N (IHF A)	
DVD, DVR/VCR, TV, GAME/AUX	75 dB (85 dB, IHF'66)
Input impedance	
DVD, DVR/VCR, TV, GAME/AUX	22 kΩ
Tone controls	
BASS	50 Hz, +10 to -10 dB
TREBLE	20 kHz, +10 to -10 dB
■ FM TUNER SECTION	
Frequency range	87.5 - 108.0 MHz
Sensitivity	11.2 dBf (2 μV, IHF'58)
50 dB quieting sensitivity	
MONO	
	18.3 dBf(4.5 μV, IHF'58)
STEREO	
	38.3 dBf(45 μV, IHF'58)
Total harmonic distortion	
MONO	0.2%
STEREO	0.3%
S/N	
MONO	71 dB
STEREO	65 dB
Frequency response	
20 Hz-15 kHz	+1 dB, -2 db
Image rejection at 98 MHz	40 dB
Stereo separation	
1 kHz	40 dB
10 kHz	30 dB
Antenna terminal	75 Ω (unbalanced)
■ AM TUNER SECTION	
Frequency range	522 - 1611 kHz (9 kHz steps)
	530 - 1620 kHz (10 kHz steps)
Sensitivity	430 μV/m
■ VIDEO SECTION	
Output voltage at 1V input (unbalanced)	1±0.1 Vp-p
Maximum input voltage	1.5 Vp-p
Input/output impedance	75 Ω
■ GENERAL	
Power consumption	
(Main unit)	25 W
(Subwoofer)	250 W
Power consumption in standby mode:	1 W
Power supply	
For United Kingdom only	AC 230 - 240 V, 50 Hz
For others	AC 230 V, 50 Hz

Dimensions (W × H × D)	**430 × 68 × 287 mm**
Mass	**2.0 kg**
■ SYSTEM	
System: SC-HT05 (EP)	**Main unit: SA-HT05 (EP)**
	Satellite Speaker: SB-HT05 (P)
	Active Subwoofer: SB-WA05 (E)
System: SC-HT05 (EB)	**Main unit: SA-HT05 (EP)**
	Satellite Speaker: SB-HT05 (P)
	Active Subwoofer: SB-WA05 (EB)
System: SC-HT05 (EG)	
	Main unit: SA-HT05 (EG)
	Satellite Speaker: SB-HT05 (P)
	Active Subwoofer: SB-WA05 (E)
Speaker: SB-HT05 (P)	
	Front speakers: SB-PF725 (P) x 2
	Surround speakers: SB-PS725 (P) x 2
	Center speaker: SB-PC725 (P) x 1

1. Specifications are subject to change without notice. / Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

*** Manufactured under license from Dolby Laboratories. / "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.**

**** Manufactured under license from Digital Theater System. / "DTS" and "DTS Digital Surround" are trademarks of Digital Theater System.**

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. Caution for AC Mains Lead

(For "EB" area code model only.)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OFF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:

Blue:	Neutral
Brown:	Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use
Remove the connector cover.

How to replace the fuse
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

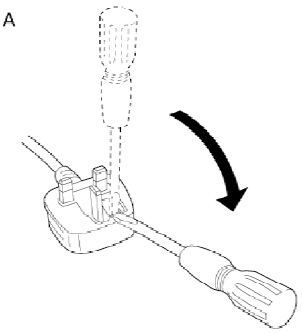
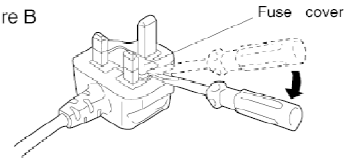


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

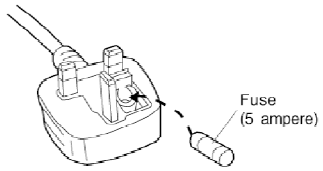
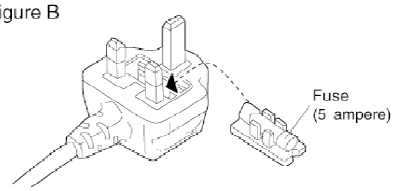


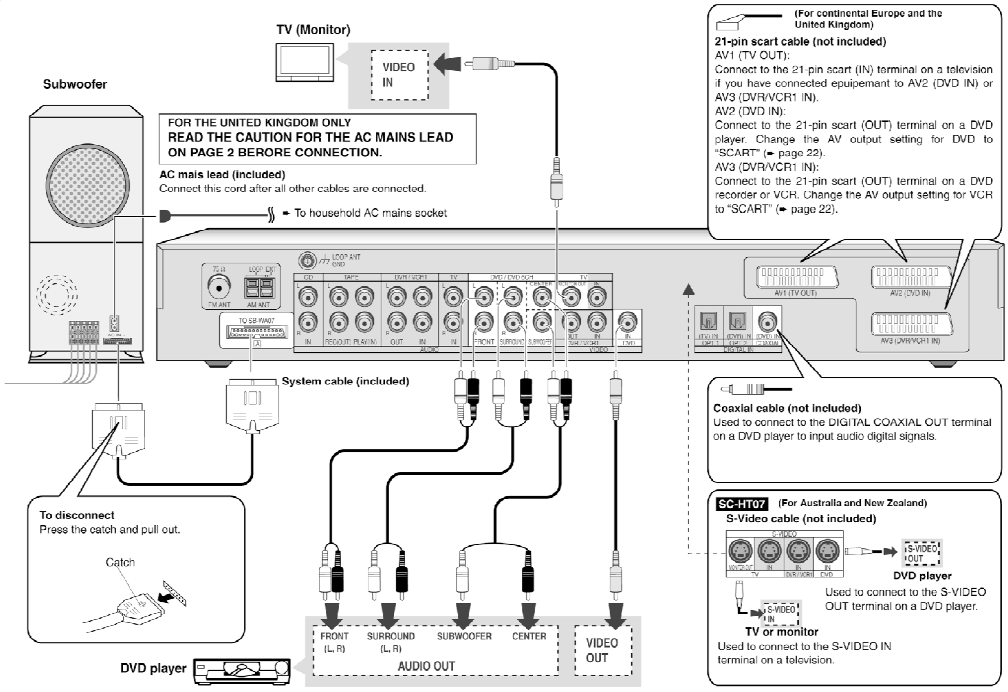
Figure B



2. Use of Active Subwoofer

2.1. Checking Player when Active Subwoofer is Used

1. This unit uses the active subwoofer to supply the power of the component, and the active subwoofer should be connected to the component to check operational conditions of the component.


TV (Monitor)
VIDEO IN
Subwoofer
FOR THE UNITED KINGDOM ONLY
READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 2 BERORE CONNECTION.
AC mais lead (included)
Connect this cord after all other cables are connected.
To household AC mains socket
(For continental Europe and the United Kingdom)
21-pin scart cable (not included)
AV1 (TV OUT):
Connect to the 21-pin scart (IN) terminal on a television if you have connected equipemant to AV2 (DVD IN) or AV3 (DVR/VCR1 IN).
AV2 (DVD IN):
Connect to the 21-pin scart (OUT) terminal on a DVD player. Change the AV output setting for DVD to "SCART" (➡ page 22).
AV3 (DVR/VCR1 IN):
Connect to the 21-pin scart (OUT) terminal on a DVD recorder or VCR. Change the AV output setting for VCR to "SCART" (➡ page 22).
System cable (included)
Coaxial cable (not included)
Used to connect to the DIGITAL COAXIAL OUT terminal on a DVD player to input audio digital signals.
SC-HT07 (For Australia and New Zealand)
S-Video cable (not included)
DVD player
Used to connect to the S-VIDEO OUT terminal on a DVD player.
TV or monitor
Used to connect to the S-VIDEO IN terminal on a television.
To disconnect
Press the catch and pull out.
Catch
DVD player
FRONT (L, R)
SURROUND (L, R)
SUBWOOFER
CENTER
AUDIO OUT
VIDEO OUT

3. Before Repair and Adjustment (Using Active Subwoofer Unit)

Disconnect AC power, discharge Power Supply Capacitors C750 (For main unit), C546 ~ C549 (For active subwoofer) through a 10 Ω , 1W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at AC 230V, 50Hz in NO SIGNAL mode should be ~1000 mA .

4. SAFETY PRECAUTIONS

4.1. GENERAL GUIDELINES

1. **When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.**
3. **After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

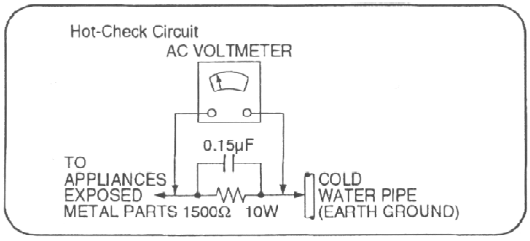
4.1.1. LEAKAGE CURRENT COLD CHECK

1. **Unplug the AC cord and connect a jumper between the two**

prongs on the plug.

2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M Ω and 5.2 Ω . / When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

Fig. 1



4.1.2. LEAKAGE CURRENT HOT CHECK (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

5. Handling the Lead Solder

5.1. About lead free solder (PbF)

Distinction of PbF P.C.B. :

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- **Pb free solder has a higher melting point that standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. / Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).**
- **Pb free solder will tend to splash when heated too high (about 1100°F/600°C).**
- **When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.**

6. About the Protection Circuitry

The protection circuitry may have operated if either of the following conditions is noticed:

***No sound is heard when the power is supplied.**

***Sound stops during a performance.**

The functions of this circuitry is to prevent circuitry damage, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlined below:

1. Press the STANDBY /ON button, switch to STANDBY mode.

2. Determine the cause of the problem and correct it.

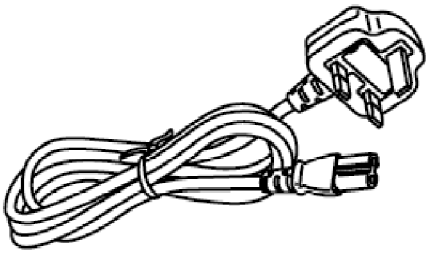
3. Press the STANDBY /ON button once again, supply the power.

Note:

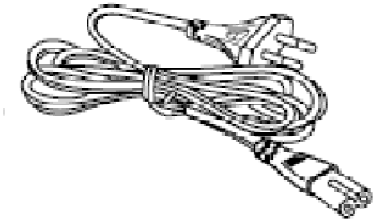
When the protection circuitry functions, the unit will not operate unless the STANDBY /ON button is first switched STANDBY and then ON again.

7. Accessories

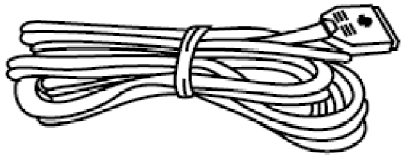
AC power supply cord (For EB only)



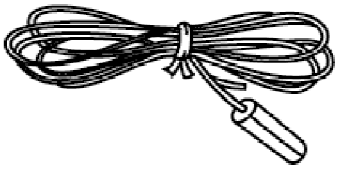
AC power supply cord



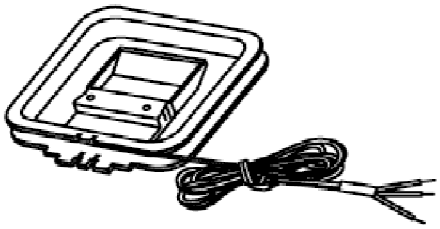
System cable



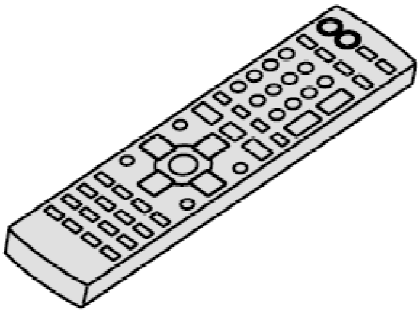
FM indoor antenna



AM loop antenna



Remote control transmitter



Antenna plug adaptor (for EB only)

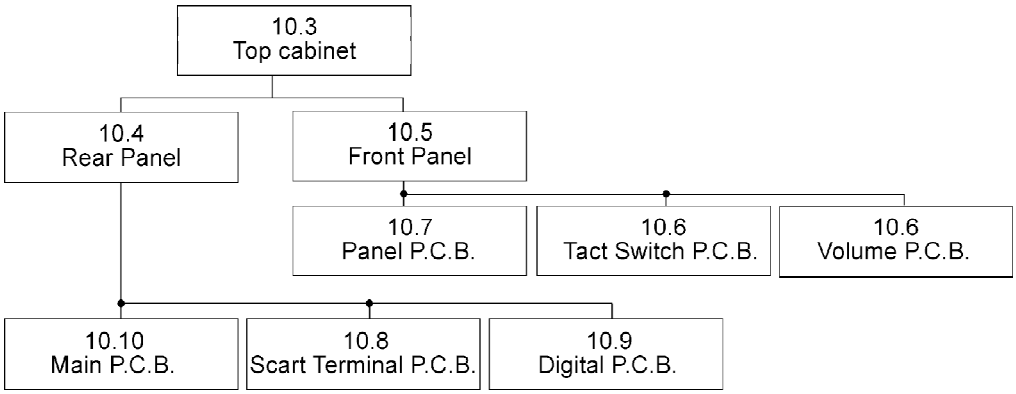
8. Operation Procedures

9. Remote Control

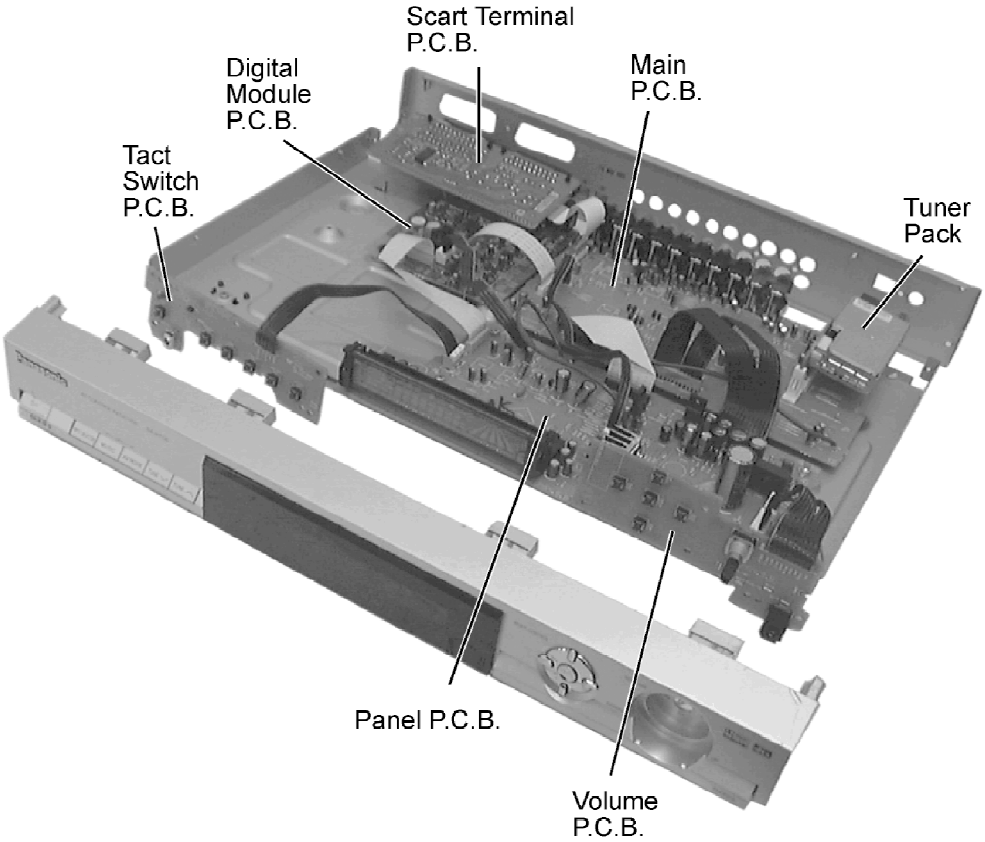
10. Assembling and Disassembling

10.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart as below.

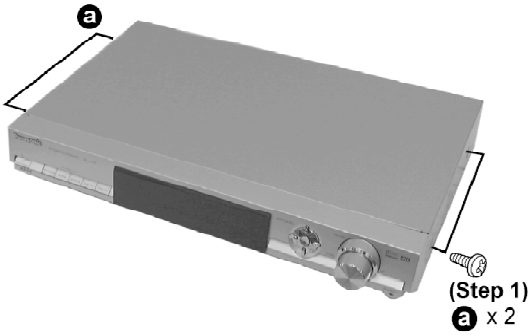


10.2. P.C.B. Positions

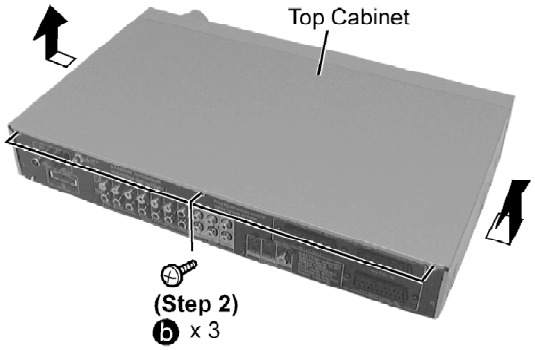


10.3. Disassembly of Top Cabinet

Step 1: Remove 2 screws at each side.



Step 2 : Remove 3 screws at rear panel.

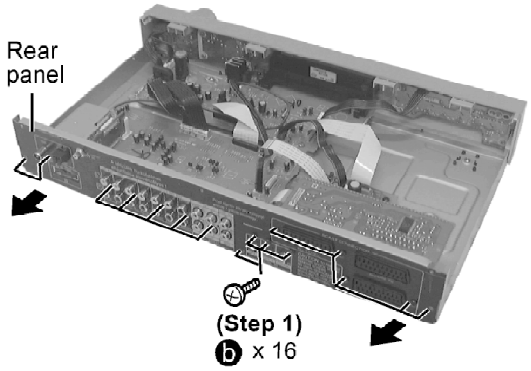


Step 3 : Open and lift up the Top Cabinet in the direction of arrow shown.

10.4. Disassembly of Rear Panel

- Follow the (Step 1) - (Step 3) of item 10.3 - Removal of Top Cabinet

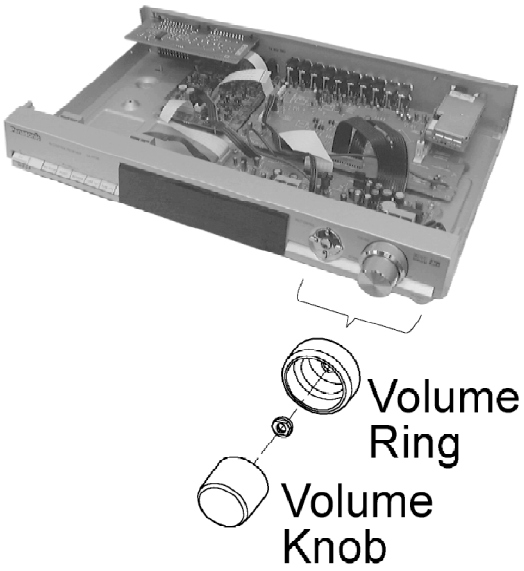
Step 1 : Remove 16 screws, pull rear panel forward in the arrow shown.



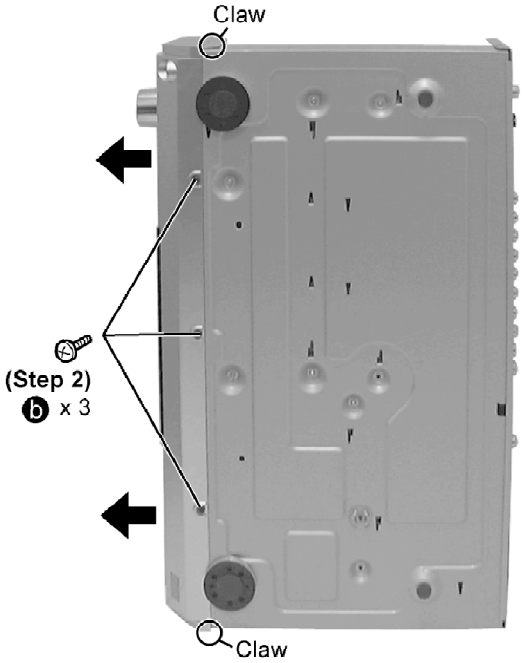
10.5. Removal of Front Panel

- Follow the (Step 1) - (Step 3) of item 10.3 - Removal of Top Cabinet

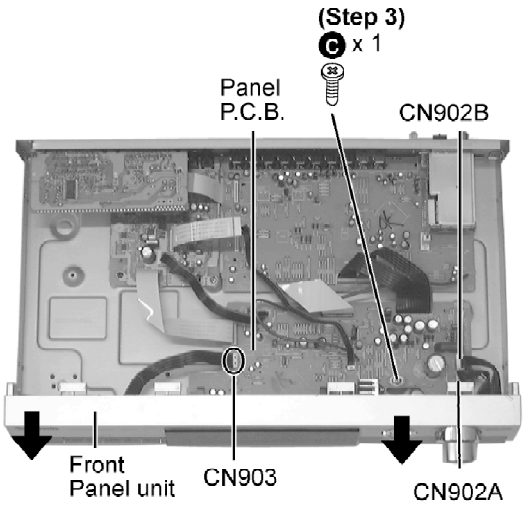
Step 1 : Remove the volume knob.



Step 2 : Remove 3 screws at front panel. Release claws on each side and push the front panel as arrow shown.



Step 3 : Draw the front panel unit forward as arrow shown, disconnect wire connectors CN903, CN902A & CN902B.



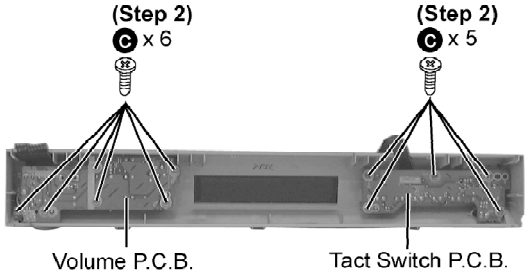
Step 4 : Remove 1 screw securing the grounding at Panel P.C.B.

10.6. Disassembly of Tact Switch P.C.B. & Volume P.C.B.

- Follow the (Step 1) - (Step 3) of item 10.3 - Removal of Top Cabinet

- Follow the (Step 1) - (Step 4) of item 10.5 - Removal of Front Panel

Step 1 : Remove 6 screws at Tact Switch P.C.B. & and 5 screws at Volume P.C.B.



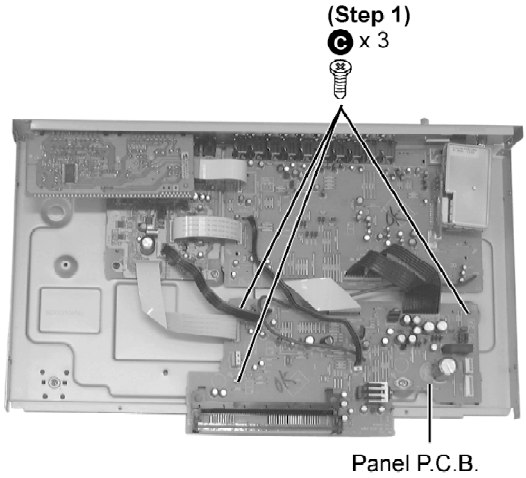
10.7. Disassembly of Panel P.C.B.

- Follow the (Step 1) - (Step 3) of item 10.3 - Removal of Top Cabinet

- Follow the (Step 1) - (Step 4) of item 10.5 - Removal of Front Panel

- Follow the (Step 1) of item 10.6 - Removal of Tact Switch P.C.B. & Volume P.C.B.

Step 1 : Remove 3 screws at Panel P.C.B..

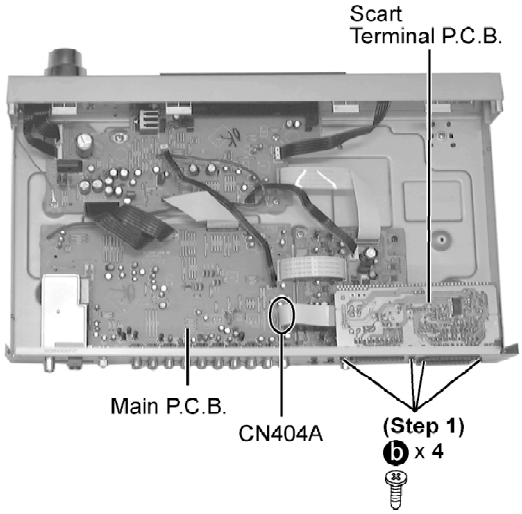


10.8. Disassembly of Scart Terminal P.C.B.

- Follow the (Step 1) - (Step 3) of item 10.3 - Removal of Top Cabinet

Step 1 : Remove 4 screws at rear panel.

Step 2 : Detach connector CN404A at Main P.C.B.

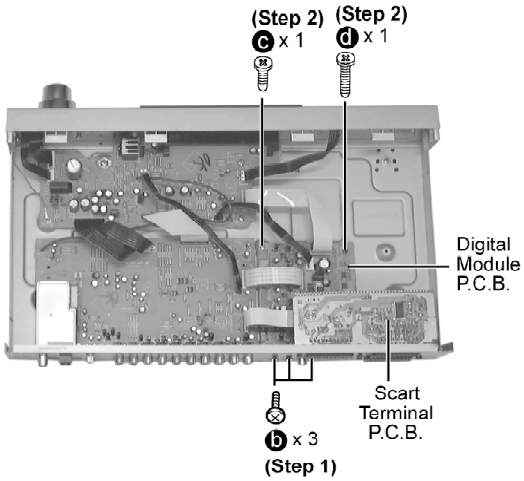


10.9. Disassembly of Digital Module P.C.B.

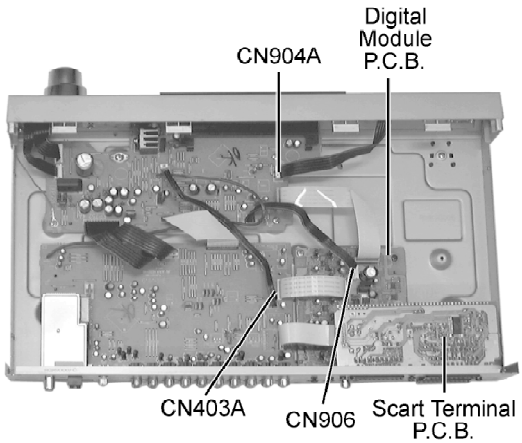
- Follow the (Step 1) - (Step 3) of item 10.3 - Removal of Top Cabinet

Step 1 : Remove 3 screws at rear panel.

Step 2 : Detach 2 screws at Digital Module P.C.B..



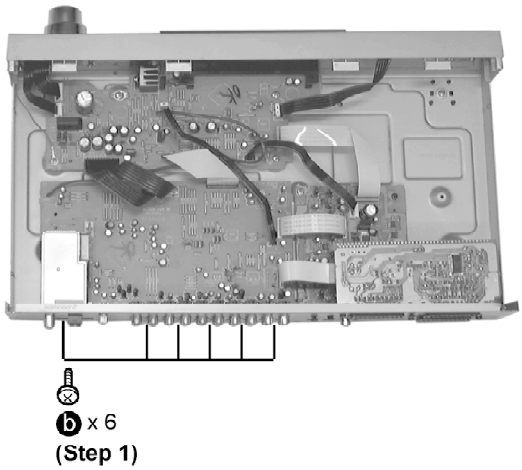
Step 3 : Disconnect 3 connectors (CN904B, CN403B & CN906) at Digital Module P.C.B.



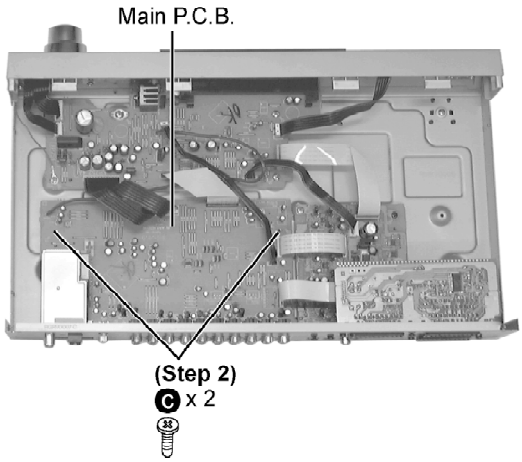
10.10. Disassembly of Main P.C.B.

- Follow the (Step 1) - (Step 3) of item 10.3 - Removal of Top Cabinet

Step 1 : Remove 9 screws at rear panel.



Step 2 : Remove 2 screws at Main P.C.B.



11. Service Position

11.1. Checking Procedure

Note:

For the disassembling procedure, see Section 9.

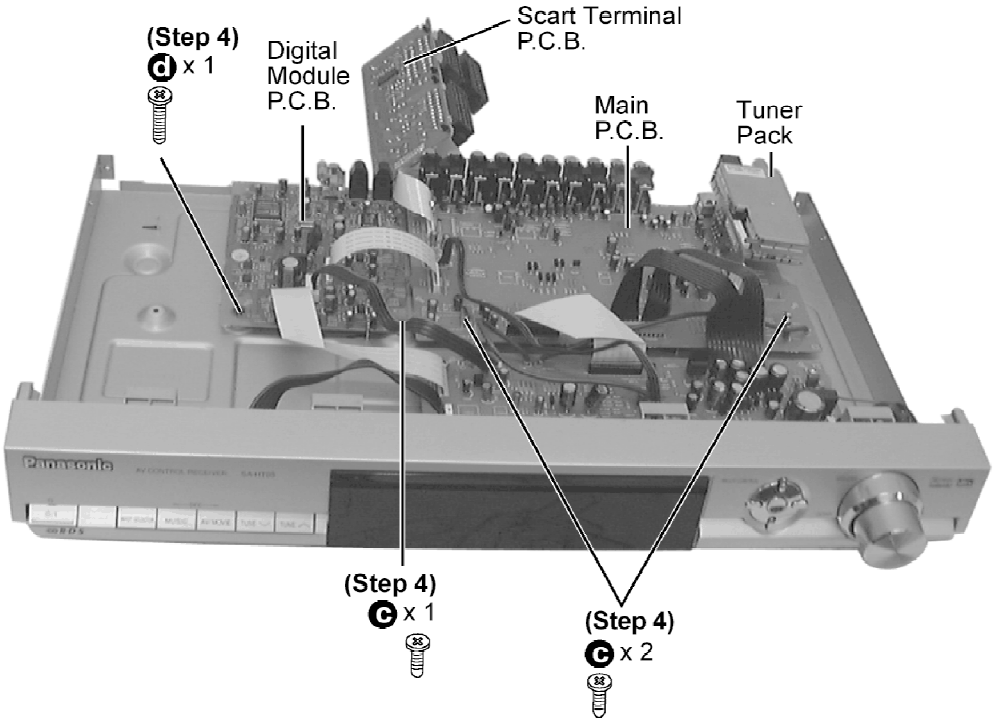
11.2. Checking the Digital Module P.C.B., Main P.C.B. & Scart Terminal P.C.B.

1. Disassembly of Top Cabinet.

2. Disassembly of Rear Panel.

3. Disassembly of Scart Terminal P.C.B.

4. Disassembly of Digital Module P.C.B. and 2 screws on Main P.C.B.

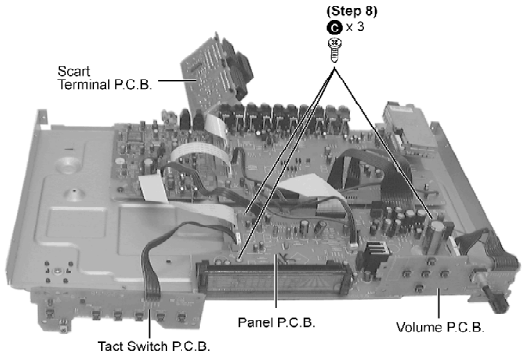


11.3. Checking the Main P.C.B., Panel P.C.B., Tact Switch P.C.B. & Volume P.C.B.

1. Disassembly of Top Cabinet.

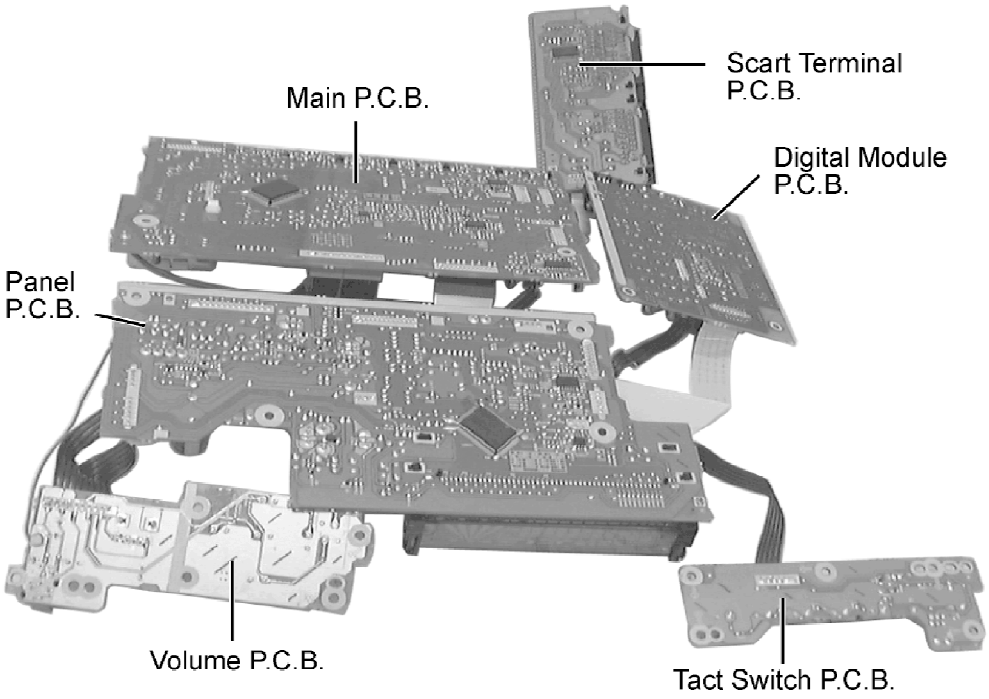
2. Disassembly of Rear Panel.

3. Disassembly of Front Panel.



4. Disassembly of Tact Switch P.C.B. & Volume P.C.B..

5. Flip the PCBs over (see as shown in picture below).



12. Self Diagnosis Display Function

This unit is equipped with the self diagnosis display function, which alarms faulty operation with error code. Use this function during servicing.

12.1. Automatically Displayed Error Codes

An error code automatically appears on the display (F_ _) when faulty operation is detected. Refer to Fig. 11.1. For error codes, refer to Section 11.2.

12.2. Error Code Display Details

Refer to the following table for error codes.

FL Display	Symptom	Cause and Remedy
OVERLOAD	Speaker short, amplifier failure.	Speaker short and failure in power amplifier, pre-amplifier circuits. Check for faulty parts and replace with new parts if necessary.
	Humidity protection activated.	
FAN LOCK	The fan stops suddenly.	Failure in fan or fan control circuits. Check for faulty parts and replace with new parts if necessary.
F70	Communication error between sub micro processor and its peripheral LSI	Failure sub-micro processor and its peripherals LSI. Check for faulty aprts and replace wit new parts if necessary.
F76	When the power is turned on, the unit power autimatically turns off, the power cannot be turned on.	Failure in the power circuit system of the unit. This may happen when the direct curren electricity is supplied to speak terminals. Check for the above and replace with new parts if necessary.

12.3. Activating Self Diagnosis Function (Doctor Mode)

This mode is used for the production process.

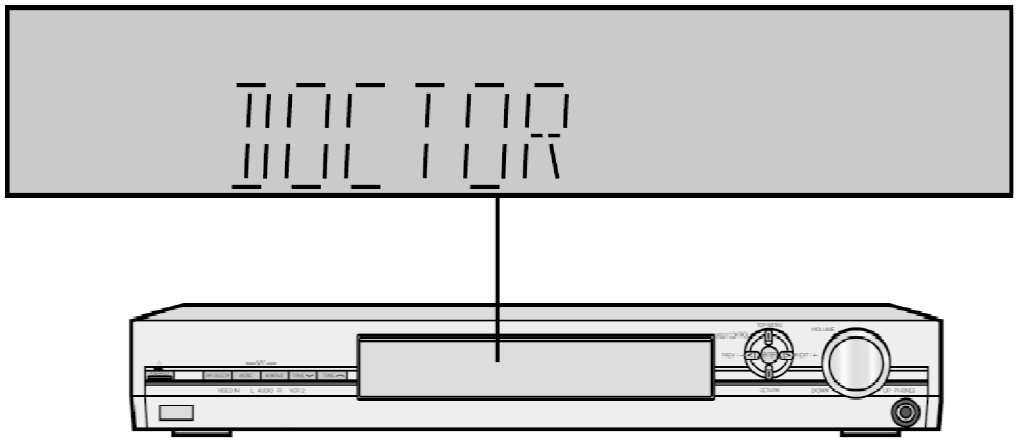
1. With the following operation, the processing of this mode begins.

- When “POWER” button is also pressed as those buttons are not released after detecting that “INPUT SELECTOR” and “MULTI_JOG_ENTER” button are pressed at the same time. It may do the operation which corresponds to them when each button is pressed. But, when “POWER” button is pressed next, the processing of this mode must be begun.

- When “CHECKER COMMAND” code (00 DF) of remote control is received.

*** At this time, initialize all setting and set the following frequency to Tuner. Display “DOCTOR” in FL display for 3 seconds.**

*** Display the indication which shows that the doctor mode is activated. It is that the display is always blinked with 1 Hz cycle.**



2. **Normal function for all buttons on the unit.**
3. **Doctor mode function at some remote control codes as next table.**
4. **After remote control code “DIRECT (TUNING)”, next 4 items are available.**
   To check the connection of the buttons: When each button is pressed one by one, “OK” is displayed.
5. **When “POWER” button is pressed or “CHECKER COMMAND” code of remote control is received, quit this mode and turn off power. Then initialize all setting of RAM.**
   (NOTE)
   In this mode, check “POWER” button pressing or “CHECKER COMMAND” code receiving. If these are detected, operate above No. 5 item. In this mode, if the power failure is detected, initialize all RAM.
6. **To use to the Final Inspection of the product: Enter some remote control as follows;**

Remote Control	Test Mode Function and settings			
	Selector	Sound Mode	Other setting	Vol/Tone
CH 1	TUNER	STEREO	Frequency : FM min.	-48dB/0dB
CH 2	TUNER	STEREO	Frequency : FM max.	-48dB/0dB
CH 3	TUNER	STEREO	FM 98.3 MHz.	-18dB/0dB
CH 4	TUNER	STEREO	Frequency : AM min.	-48dB/0dB
CH 5	TUNER	STEREO	Frequency : AM max.	-48dB/0dB
CH 6	TUNER	STEREO	AM 765 kHz (9kHz/step)	-18dB/0dB
CH 7	TUNER	STEREO	AM 770 kHz (10kHz/step)	-18dB/0dB
CH 8	If the input selector is TUNER, auto tuning function is started to upward on current frequency.			
CH 9	If the input selector is TUNER, auto tuning function is started to downward on current frequency.			
CH 0	All indicators of FL are displayed. Note: After this setting, only “POWER” button or “CHECKER COMMAND” code by the remote control can be entered.			
CH UP	Check Main uP software version.			
SUBWOOFER	VCR (Analog)	----	-	-18dB/0dB
MUTING	DVD 6 CH	----	-	-18dB/0dB
INPUT MODE	CD	STEREO	Analog	-18dB/0dB
SLEEP	TV	STEREO	Analog	-18dB/0dB
TONE/BAL	DVD	STEREO	Analog	-18dB/0dB
LEVEL	DVR/VCR	STEREO	Analog	-18dB/0dB
EFFECT	DVD	STEREO	Digital (COAX)	-48dB/0dB
STEREO	TV	STEREO	Digital (OPT 1)	-48dB/0dB
PL2	DVR/VCR	STEREO	Digital (OPT 2)	-48dB/0dB
TEST	No change	SURROUND	Scan the test noise output channel with 500ms intervals.	-18dB/0dB
-/L	CD *2)	STEREO	Balance is set to leftmost.	-18dB/0dB
+/R	CD *2)	STEREO	Balance is set to rightmost.	-18dB/0dB
DIMMER	If the input selector is TUNER in E2 mode, Display mode (PS/PTY) is change			

*** By the model setting, when there is not a function, ignore it. (ex. INPUT MODE in HT05 mode)**

*** Auto decode mode cannot activate in Doctor Mode.**

12.4. Activating Self Diagnosis Function (Servicing Mode)

This mode is used for servicing.

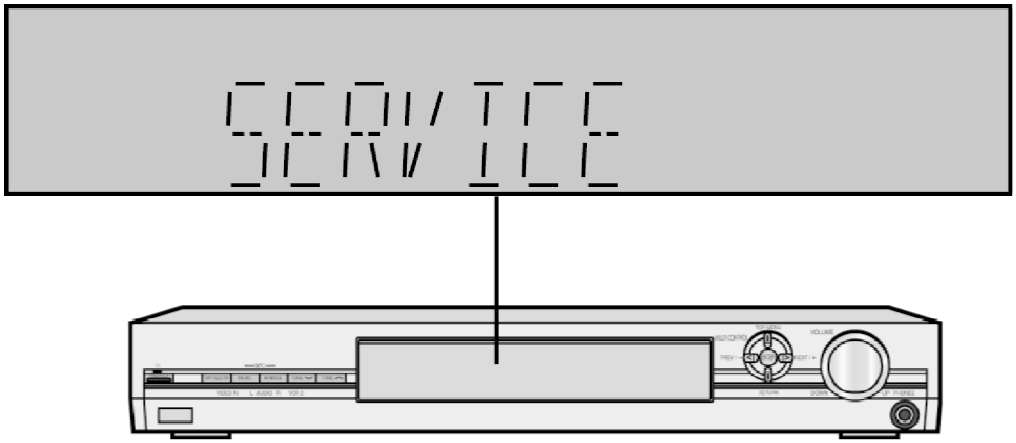
1. With the following operation, the processing of this mode begins.

- When “POWER” button is also pressed as those buttons are

not released after detecting that “MULTI_JOG_ENTER” and “MUSIC SFC” button are pressed at the same time. It may do the operation which corresponds to them when each button is pressed. But, when “POWER” button is pressed next, the processing of this mode must be begun.

* At this time, initialize all setting and set the following frequency to Tuner. Display “SERVICE” in FL display for 3 seconds.

2. To confirm the Main uP software Version: When “TUNING DOWN” button is pressed, “V16 NO” is displayed. “V16 NO” is the version.
3. When “POWER” button is pressed, quit this mode and turn off power.



*1) Memorize this frequency once in CH1 to 7 and recall it.
*2) AUX as for HT05.

12.5. Returning to Normal Display

Press the POWER button on the unit to exit the function. The power is turned off.

13. Block Diagram

14. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)
Note:

S951

: ENTER switch

S952

: NEXT switch

S953

: UP switch

S954

: DOWN switch

S955

: BACK switch

S981

: POWER switch

S982

: INPUT SELECTOR switch

S983

: MUSIC switch

S984

: AV/ MOVIE switch

S985

: TUNING DOWN switch

S986

: TUNING UP switch

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

- Importance safety notice :

Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution !

IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.

- Do not touch the pins of IC, LSI or VLSI with fingers directly.

14.1. (A) DSP Circuit

14.2. (B) Main Circuit & (C) Tuner Extent Circuit

14.3. (D) Panel Circuit, (E) Headphone Circuit & (F) Power Circuit

14.4. (H) Scart Circuit

15. Printed Circuit Board Diagram

15.1. (A) DSP P.C.B. (Side A & B)

15.2. (B) Main P.C.B.

15.3. (C) Tuner Extent P.C.B., (E) Headphone P.C.B. & (F) Power P.C.B.

15.4. (D) Panel P.C.B.

15.5. (H) Scart P.C.B.

16. Wiring Connection Diagram

17. Type Illustration of IC's, Transistors and Diodes

18. Terminal Function of IC

18.1. IC901 (C2BBGF000513): Microprocessor

Pin No.	Terminal Name	I/O	Function
1	SPECTRUM_1	I	Spectrum 100Hz Level
2	SPECTRUM_2	I	Spectrum 1kHz Level
3	SPECTRUM_3	I	Spectrum 10kHz Level
4	TUNER_CL	I	NEW TUNER (12C Clock)
5	TUNER_ST	I	NEW TUNER STEREO Detect
6	TUNER_DT	I	NEW TUNER (12C Data)
7	TUNER_SD	I	NEW TUNER SD Detect
8	EEPROM_CLK	I	EEPROM Clock for ROM correction
9	EEPROM_CS	I	EEPROM CS for ROM correction
10	EEPROM_DT	I	EEPROM Data for ROM correction
11	INIT2	I	INITIAL Setting 2
12	INIT1	I	INITIAL Setting 1
13	INIT_Out	O	INITIAL Setting Output
14	FLASHROM_A0	I	FLASH ROM Page Select (HT03 only)
15	FLASHROM_A1	I	FLASH ROM Page Select (HT03 only)
16	FLASHROM_A2	I	FLASH ROM Page Select (HT03 only)
17	CNVss	-	GND
18	RESET	I	RESET input
19	SCART_A	I	SCART IC Selector Control
20	SCART_B	I	SCART IC Selector Control
21	Gnd (Vss)	-	GND
22	XIN	-	Oscillator I/P
23	XOUT	-	Oscillator O/P
24	Vcc	-	Supply Voltage
25	NC	-	N.C.
26	CS42516_RESET	I	CODEC RESET
27	CS42516_CDOUT	O	CODEC Data OUT

Pin No.	Terminal Name	I/O	Function
28	CS42516_CS	I	CODEC Chip Select
29	CS42516_INT	I	CODEC Interrupt Request
30	CS49300_INTREQ	I	DSP Interrupt Request
31	REMOTE	I	Remote Control signal input
32	SYNC	I	Power Failure Detection
33	M61527_CLK	O	Volume + Selector control Check
34	M61527_DATA	O	Volume + Selector control Data
35	M61527_LATCH	O	Volume + Selector control Latch
36	DSP_OFF	O	Switch OFF DSP Power
37	MUTE_HP	O	Headphone MUTE
38	SW_POWER	O	Amplifier Power Shut Down
39	RDS_DATA	O	RDS IC Control: DATA
40	RDS_CLK	O	RDS IC Control : Clock
41	MUTE_ALL	O	MUTE all Channel
42	MUTE_S/C	O	MUTE Surround Channel
43	NC	-	No connection
44	TUN_CLK	O	CLK Tuner
45	TUN_DI	O	Input Tuner
46	TUN_DT	O	Detect Tuner
47	TUN_SD	O	Old Tuner
48	TUN_CE	O	Chip Enable Tuner
49	VIDEO_C	O	VIDEO Selector control
50	VIDEO_A	O	VIDEO Selector control
51	VIDEO_B	O	VIDEO Selector control
52	VOL_ENCD_B	I	Volume Encoder input B
53	VOL_ENCD_A	I	Volume Encoder input A

Pin No.	Terminal Name	I/O	Function
54	HP_SWITCH	O	Detect H/Phone Connection
55	POWER_RLY	O	Power Relay Control
56	DC_DET	I	Fan Lock detection
57 - 78	SEG22 - SEG1	O	FL Segment Output
79 - 88	DIG1 - DIG10	O	FL DIGIT Output
89	VEE	-	GND
90	CS49300_CDOUT	O	DSP serial DATA OUT
91	CS49300_CDIN	I	DSP serial DATA IN
92	CS49300_CCLK	O	DSP Clock
93	CS49300_CS	I	DSP Chip Select
94	CS49300_RESET	O	DSP RESET
95	S_DET	O	Power supply Short Detection
96	OVERLOAD	O	Amplifier Error Detect
97	AVss	-	GND
98	Vref	-	Vref Voltage
99	Key1	I	Key Input1
100	Key2	I	Key Input2

19. Parts Location and Replacement Parts List

Notes:

- Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.
When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour)
Parts without these indications can be used for all areas.

- Capacitor values are in microfarads (μ F) unless specified otherwise, P= Pico-farads (pF), F= Farads.

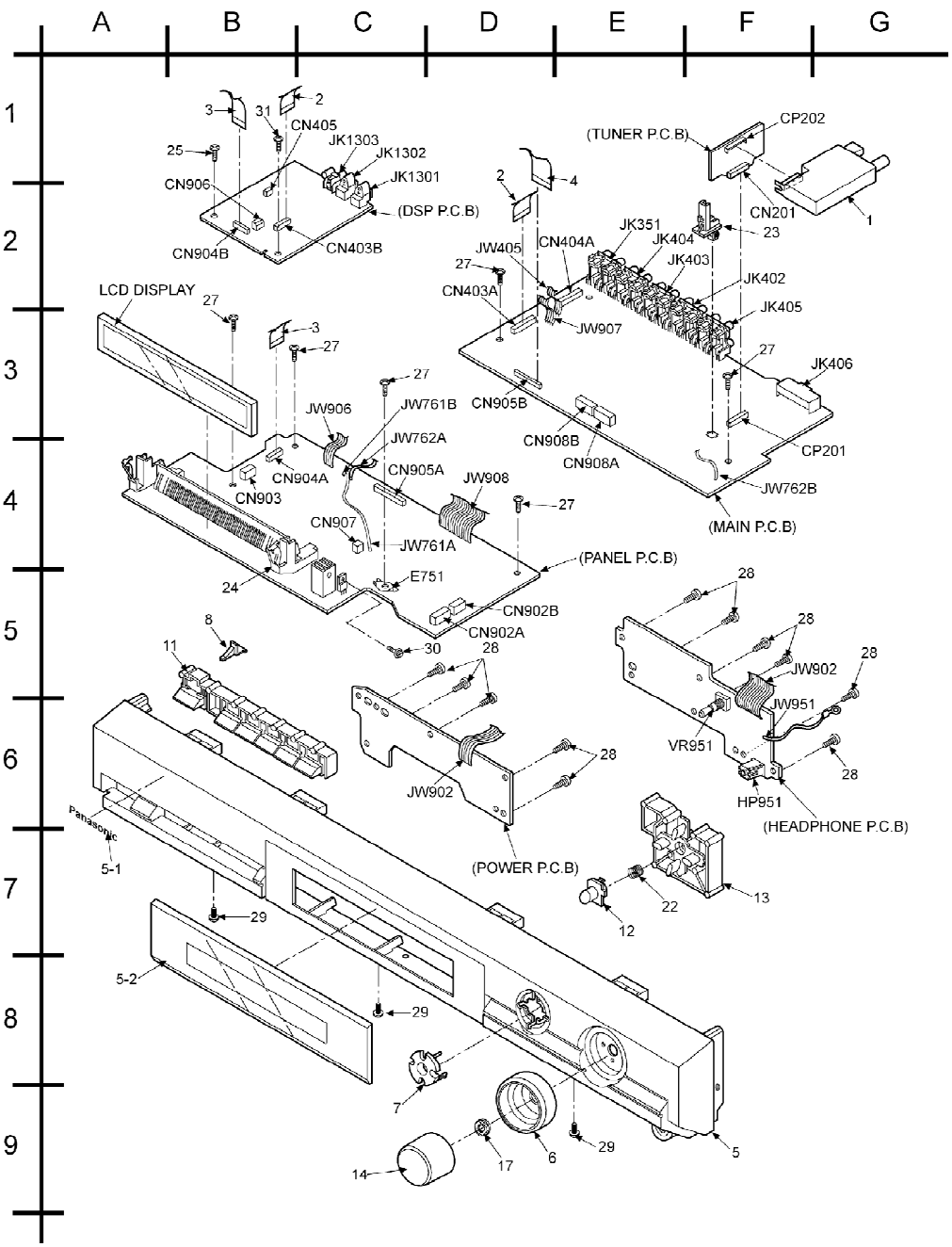
- Resistance values are in ohms, unless specified otherwise, 1K= 1,000 (OHM).

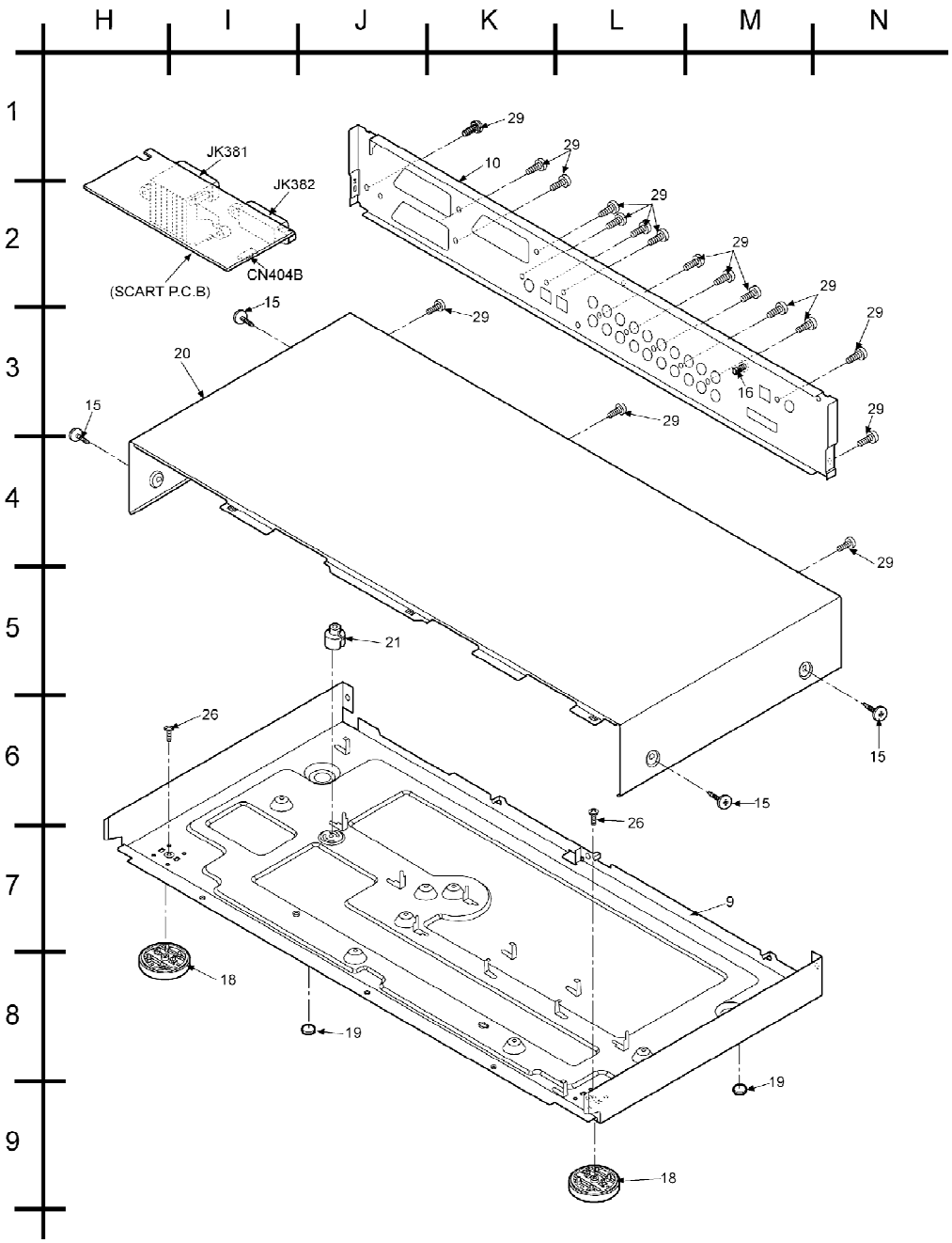
- **The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**
- **[M] Indicates in the Remarks columns indicates parts supplied by PAVCSG.**
- **Reference for O/I book languages are as follows:**

Ar :	**Arabic**	**Du :**	**Dutch**	**It :**	**Italian**	**Sp :**	**Spanish**
Cf :	**Canadian French**	**En :**	**English**	**Ko :**	**Korean**	**Sw :**	**Swedish**
Cz :	**Czech**	**Fr :**	**French**	**Po :**	**Polish**	**Co :**	**Traditio Chinese**
Da :	**Danish**	**Ge :**	**German**	**Ru :**	**Russian**	**Cn :**	**Simplifi Chinese**
Pe :	**Persian**	**PL :**	**Spanish/PR**				

19.1. Cabinet Parts Location

19.1.1. Cabinet


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
CN405
JK1303
JK1302
JK1301
(DSP P.C.B)
CN906
CN904B
CN403B
(TUNER P.C.B)
CP202
CN201
JK351
JK404
JK403
JK402
JK405
JK406
JW405
CN404A
CN403A
JW907
CN905B
CN908B
CN908A
CP201
JW762B
(MAIN P.C.B)
LCD DISPLAY
JW906
JW761B
JW762A
CN904A
CN905A
CN903
JW908
CN907
JW761A
(PANEL P.C.B)
E751
CN902B
CN902A
JW902
JW951
VR951
HP951
(HEADPHONE P.C.B)
(POWER P.C.B)
Panasonic
5-1
5-2



19.1.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	ENG07802QF	TUNER PACK	[M]
2	REEV0030	16P FFC (DSP)	[M]
3	REEV0031	18P FFC (DSP)	[M]
4	REEV0032	26P FFC (MAIN)	[M]
5	RFKGAHT05EBS	FRONT PANEL ASS'Y	[M]
5-1	RGB0145-N	PANASONIC BADGE	[M]
5-2	RKWV0008-R	FL WINDOW	[M]
6	RGKV0037-S	VOLUME RING	[M]
7	RGKV0038-S	CURSOR BUTTON ORN.	[M]
8	RGLV0009-Q	LED LIGHT GUIDE	[M]
9	RFKJAHT05EBS	BOTTOM CHASSIS ASS'Y	[M]EB
9	RFKJAHT05EPS	BOTTOM CHASSIS ASS'Y	[M]EG/ EP
10	RGRV0007C-A	REAR PANEL	[M]
11	RGUV0049A-S	FUNCTION BUTTON	[M]
12	RGUV0050-S	ENTER BUTTON	[M]
13	RGUV0051-S	CURSOR BUTTON	[M]
14	RGWV0003-S	VOLUME KNOB	[M]
15	RHD30007-1SJ	SCREW	[M]
16	RHD30070	EARTH TERMINAL	[M]
17	RHN90001	M9 NUT	[M]
18	RKAV0001-S	SET LEG UNIT	[M]
19	RKAV0005-K	LEG CUSHION	[M]
20	RKMV0010-S	TOP CABINET	[M]
21	RKQV0001	PCB SPACER	[M]
22	RMBV0005	BUTTON SPRING	[M]
23	RMN0203	PCB SUPPORT	[M]
24	RMNV0016-K	FL HOLDER	[M]
25	XYA3+FJ12FZ	SCREW	[M]
26	XTB3+6J	SCREW	[M]
27	XTB3+8J	SCREW	[M]
28	XTBS26+8J	SCREW	[M]
29	XTBS3+8JFZ1	SCREW	[M]
30	XYN3+F8	SCREW	[M]
31	XYB3+F8	SCREW	[M]

19.2. Electrical Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REPV0012A-T	DSP P.C.B. (SIDE: A)	[M](RTL)
	REPV0012A-T	DSP P.C.B. (SIDE: B)	[M](RTL)
	REPV0011B-M	MAIN P.C.B.	[M](RTL)
	REPV0011B-M	TUNER EXTENT P.C.B.	[M](RTL)
	REPV0011B-M	PANEL P.C.B.	[M](RTL)
	REPV0011B-M	HEADPHONE P.C.B.	[M](RTL)
	REPV0011B-M	POWER P.C.B.	[M](RTL)
	REPV0011B-M	SCART P.C.B.	[M](RTL)
		INTEGRATED CIRCUITS	
IC220	C1BB00000462	IC RDS	[M]
IC351	C1AB00001931	IC VIDEO SELECTOR	[M]
IC381	C1AB00001946	IC SCART	[M]
IC382	C0ZBZ0000474	IC SELECTOR	[M]
IC401	C1BB00000827	IC SELECTOR VOLUME	[M]
IC402	NJM2060MTE1	IC OP AMP	[M]
IC403	C0ABBB000125	IC OP AMP	[M]
IC901	C2BBGF000513	IC MICROPROCESSOR	[M]
IC902	NJM2060MTE1	IC OP AMP	[M]
IC1001	C2HBZZ000015	IC AC3/DTS	[M]
IC1003	C0JBAB000371	IC LOGIC INVERTER	[M]
IC1004	C0JBAZ002160	IC LOGIC	[M]
IC1005	C0JBAZ002161	IC LOGIC	[M]
IC1101	C0FBZK000009	IC CODEC	[M]
IC1201	C0ABBB000125	IC OP AMP	[M]
IC1202	C0ABBB000125	IC OP AMP	[M]
IC1203	C0ABBB000125	IC OP AMP	[M]
IC1701	C0CAAAG00006	IC REGULATOR	[M]
		TRANSISTORS	
Q351	2SB0621AHA	TRANSISTOR	[M]
Q401	2SD1915FTA	TRANSISTOR	[M]
Q402	2SD1915FTA	TRANSISTOR	[M]
Q403	2SD0592ARA	TRANSISTOR	[M]
Q404	2SD1915FTA	TRANSISTOR	[M]
Q405	2SD1915FTA	TRANSISTOR	[M]
Q406	2SD1915FTA	TRANSISTOR	[M]
Q407	2SD1915FTA	TRANSISTOR	[M]
Q408	2SD1915FTA	TRANSISTOR	[M]
Q409	2SD1915FTA	TRANSISTOR	[M]
Q410	KTC3875GRTA	TRANSISTOR	[M]
Q751	KRC111STA	TRANSISTOR	[M]
Q752	KTA12710YTA	TRANSISTOR	[M]
Q753	B1AAKD000009	TRANSISTOR	[M]
Q755	2SB1548PQAU	TRANSISTOR	[M]
Q756	2SD21370PA	TRANSISTOR	[M]
Q757	KTA1046	TRANSISTOR	[M]
Q758	KTC3875GRTA	TRANSISTOR	[M]
Q759	KRA110STA	TRANSISTOR	[M]
Q760	2SD2374PQAU	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q901	B1GACFJN0007	TRANSISTOR	[M]
Q981	B1GCCFJJ0008	TRANSISTOR	[M]
Q1001	B1GDCFJN0001	TRANSISTOR	[M]
Q1701	KTC3199GRTA	TRANSISTOR	[M]
Q1702	KTC2026	TRANSISTOR	[M]
Q1703	2SD23740J1AU	TRANSISTOR	[M]
		DIODES	
D220	MAZ80510LL	DIODE	[M]
D351	B0ACCK000005	DIODE	[M]
D352	B0ACCK000005	DIODE	[M]
D353	B0BC5R600003	DIODE	[M]
D354	B0BC5R600003	DIODE	[M]
D381	B0BC01200019	DIODE	[M]
D401	B0ACCK000005	DIODE	[M]
D402	B0ACCK000005	DIODE	[M]
D403	B0ACCK000005	DIODE	[M]
D750	B0FBAM000010	DIODE	[M]
D751	B0EAKM000117	DIODE	[M]
D752	B0EAKM000117	DIODE	[M]
D753	B0EAKM000117	DIODE	[M]
D754	B0EAKM000117	DIODE	[M]
D755	B0EAKM000117	DIODE	[M]
D756	B0EAKM000117	DIODE	[M]
D757	B0BC5R600003	DIODE	[M]
D758	B0ACCK000005	DIODE	[M]
D759	B0BC8R100004	DIODE	[M]
D760	B0BC022A0007	DIODE	[M]
D761	B0BC9R000008	DIODE	[M]
D762	B0ECKM000016	DIODE	[M]
D763	B0ECKM000016	DIODE	[M]
D764	B0ADCJ000020	DIODE	[M]
D765	B0ACCK000005	DIODE	[M]
D766	B0BC8R100004	DIODE	[M]
D767	B0BC8R100004	DIODE	[M]
D768	B0ACCK000005	DIODE	[M]
D901	B0ACCE000003	DIODE	[M]
D902	B0ACCE000003	DIODE	[M]
D903	B0ACCK000005	DIODE	[M]
D904	B0ACCK000005	DIODE	[M]
D905	B0BC5R600003	DIODE	[M]
D921	B0ACCK000005	DIODE	[M]
D922	B0ACCK000005	DIODE	[M]
D923	B0ACCK000005	DIODE	[M]
D924	B0BC5R600003	DIODE	[M]
D925	B0BC5R600003	DIODE	[M]
D926	B0BC5R600003	DIODE	[M]
D981	B0ACCK000005	DIODE	[M]
D982	SLR342VC	DIODE	[M]
D1701	UDZSTE176R2B	DIODE	[M]
		VARIABLE RESISTORS	

Ref. No.	Part No.	Part Name & Description	Remarks
VR951	EVEKD2F3024B	ROTARY ENCODER	[M]
		SWITCHES	
S951	EVQ21405RJ	SW ENTER	[M]
S952	EVQ21405RJ	SW NEXT	[M]
S953	EVQ21405RJ	SW UP	[M]
S954	EVQ21405RJ	SW DOWN	[M]
S955	EVQ21405RJ	SW BACK	[M]
S981	EVQ21405RJ	SW POWER	[M]
S982	EVQ21405RJ	SW INPUT	[M]
S983	EVQ21405RJ	SW MUSIC	[M]
S984	EVQ21405RJ	SW AV/MOVIE	[M]
S985	EVQ21405RJ	SW TUNE DOWN	[M]
S986	EVQ21405RJ	SW TUNE UP	[M]
		CONNECTORS	
CN201	K1KB10B00042	10P CONNECTOR	[M]
CN403A	K1MN16A00073	16P FFC CONNECTOR	[M]
CN403B	K1MN16A00073	16P FFC CONNECTOR	[M]
CN404A	K1MN16A00073	16P FFC CONNECTOR	[M]
CN404B	K1MN16B00133	16P FFC CONNECTOR	[M]
CN405	K1MP03A00010	3P CONNECTOR	[M]
CN902A	K1MP06A00008	6P CONNECTOR	[M]
CN902B	K1MP04A00007	4P CONNECTOR	[M]
CN903	K1MP05A00010	5P CONNECTOR	[M]
CN904A	K1MN18A00046	18P CONNECTOR	[M]
CN904B	K1MN18A00046	18P CONNECTOR	[M]
CN905A	K1MN26A00043	26P FFC CONNNECTOR	[M]
CN905B	K1MN26A00043	26P FFC CONNNECTOR	[M]
CN906	K1MP04A00007	4P CONNECTOR	[M]
CN907	K1MP04A00008	4P CONNECTOR	[M]
CN908A	K1MP06A00009	6P CONNECTOR	[M]
CN908B	K1MP07A00006	7P CONNECTOR	[M]
CP201	K1KA10A00263	10P CONNECTOR	[M]
CP202	K1KA10A00263	10P CONNECTOR	[M]
		COILS & TRANSFORMERS	
L220	J0JBC0000041	CHIP INDUCTOR	[M]
L221	J0JBC0000041	CHIP INDUCTOR	[M]
L751	G0A100G00005	RF CHOKE COIL	[M]
L752	G0A100G00005	RF CHOKE COIL	[M]
L951	J0JBC0000019	CHIP INDUCTOR	[M]
L952	J0JBC0000019	CHIP INDUCTOR	[M]
L953	J0JBC0000019	CHIP INDUCTOR	[M]
L1001	G1C2R2K00008	CHIP INDUCTOR	[M]
L1002	G1C2R2K00008	CHIP INDUCTOR	[M]
L1003	G1C2R2K00008	CHIP INDUCTOR	[M]
L1004	G1C2R2K00008	CHIP INDUCTOR	[M]
L1101	G1C2R2K00008	CHIP INDUCTOR	[M]
L1102	G1C2R2K00008	CHIP INDUCTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
L1103	G1C2R2K00008	CHIP INDUCTOR	[M]
L1301	RLQZ150M-0	CHOKE COIL	[M]
L1302	VLQ0855M1R0T	CHIP INDUCTOR	[M]
		COMPONENT COMBINATION	
Z981	RCD37142TC5	REMOTE SENSOR	[M]
Z1101	J0JKB0000020	EMI BEAD CORE	[M]
HS901	RMY0281	POWER HEATSINK	[M]
		CERAMIC FILTERS	
CF901	H2B400400008	CERAMIC OSCILLATOR	[M]
		OSCILLATORS	
X220	H0H433400001	CRYSTAL	[M]
X1001	H0J122200001	CYRSTAL	[M]
		DISPLAY TUBE	
FL901	A2BB00000128	FL DISPLAY	[M]
		FUSE PROTECTOR	
FP751	K5G202AA0002	FUSE PROECTOR	[M] ⚠
FP752	K5G402AA0002	FUSE PROTECTOR	[M] ⚠
		JACKS	
JK351	K2HA408B0076	JK 4P RCA	[M]
JK381	K1FB242B0002	JK SCART	[M]
JK382	K1FB121B0014	JK SCART	[M]
JK402	K2HA408B0067	JK 4P RCA	[M]
JK403	K2HA408B0067	JK 4P RCA	[M]
JK404	K2HA408B0075	JK 4P RCA	[M]
JK405	K4BK04H00006	JK 4P RCA	[M]
JK406	K1FB125B0097	JK 25P	[M]
JK1301	B3RAB0000031	JK OPTICAL IN	[M]
JK1302	B3RAB0000031	JK OPTICAL IN	[M]
JK1303	K4BK01H00003	JK COAX INPUT	[M]
HP951	RJJ37TK07-X	HEADPHONE JACK	[M]
		EARTH TERMINAL	
E751	SNE1004-2	EARTH TERMINAL	[M]
		CHIP RESISTOR	
W11	ERJ6GEY0R00V	0 1/10W	[M]
W12	ERJ6GEY0R00V	0 1/10W	[M]
W13	ERJ6GEY0R00V	0 1/10W	[M]

[illegible]	[illegible]	[illegible]	[illegible]

Ref. No.	Part No.	Part Name & Description	Remarks
W14	ERJ6GEY0R00V	0 1/10W	[M]
W15	ERJ6GEY0R00V	0 1/10W	[M]
W16	ERJ6GEY0R00V	0 1/10W	[M]
W17	ERJ6GEY0R00V	0 1/10W	[M]
W18	ERJ6GEY0R00V	0 1/10W	[M]
W51	ERJ6GEY0R00V	0 1/10W	[M]
W52	ERJ6GEY0R00V	0 1/10W	[M]
W53	ERJ6GEY0R00V	0 1/10W	[M]
W54	ERJ6GEY0R00V	0 1/10W	[M]
		WIRE	
JW405	RWJ1803150SQ	3P WIRE	[M]
JW761	REEV0010	WIRE UNIT	[M]
JW762	REEX0123	PRIMARY WIRE (WHITE)	[M]
JW902	RWJ1810100SQ	10P WIRE	[M]
JW903	RWJ1805160SQ	5P (PANEL-PWR PCB)	[M]
JW906	RWJ1804160SQ	4P (FLAT & SP-DECK)	[M]
JW907	RWJ1803220SQ	3P WIRE	[M]
JW908	RWJ1813150SQ	13P WIRE	[M]
JW951	REZ1372	EARTH WIRE	[M]
		RESISTORS	
R201	ERJ3GEYJ102V	1K 1/16W	[M]
R202	ERJ3GEYJ102V	1K 1/16W	[M]
R203	ERJ3GEYJ473V	47K 1/16W	[M]
R204	ERJ3GEYJ473V	47K 1/16W	[M]
R220	ERJ3GEYJ102V	1K 1/16W	[M]
R221	ERJ3GEYJ102V	1K 1/16W	[M]
R222	ERJ3GEYJ102V	1K 1/16W	[M]
R223	ERJ3GEYJ104V	100K 1/16W	[M]
R224	ERJ3GEYJ104V	100K 1/16W	[M]
R225	D0GB470JA008	47 1/16W	[M]
R351	ERJ3GEYJ750V	75 1/16W	[M]
R352	ERJ3GEYJ750V	75 1/16W	[M]
R353	ERJ3GEYJ750V	75 1/16W	[M]
R354	ERJ3GEYJ750V	75 1/16W	[M]
R355	ERJ3GEYJ750V	75 1/16W	[M]
R356	ERJ3GEYJ750V	75 1/16W	[M]
R357	ERJ3GEYJ103V	10K 1/16W	[M]
R358	ERJ3GEYJ103V	10K 1/16W	[M]
R359	ERJ3GEYJ103V	10K 1/16W	[M]
R360	ERJ3GEYJ103V	10K 1/16W	[M]
R361	ERJ3GEYJ102V	1K 1/16W	[M]
R362	ERJ3GEYJ102V	1K 1/16W	[M]
R363	ERJ3GEYJ102V	1K 1/16W	[M]
R364	ERD2FCVG220T	22 1/4W	[M]
R365	ERJ3GEYJ182V	1.8K 1/16W	[M]
R366	ERJ3GEYJ182V	1.8K 1/16W	[M]
R367	ERD2FCVG220T	22 1/4W	[M]
R381	ERJ3GEYJ750V	75 1/16W	[M]
R382	ERJ3GEYJ750V	75 1/16W	[M]
R383	ERJ3GEYJ750V	75 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R384	ERJ3GEYJ750V	75 1/16W	[M]
R385	ERJ3GEYJ750V	75 1/16W	[M]
R386	ERJ3GEYJ750V	75 1/16W	[M]
R387	ERJ3GEYJ750V	75 1/16W	[M]
R388	ERJ3GEYJ750V	75 1/16W	[M]
R389	ERJ3GEYJ750V	75 1/16W	[M]
R390	ERJ3GEYJ750V	75 1/16W	[M]
R391	ERJ3GEYJ750V	75 1/16W	[M]
R392	ERJ3GEYJ750V	75 1/16W	[M]
R393	ERJ3GEYJ750V	75 1/16W	[M]
R394	ERJ3GEYJ750V	75 1/16W	[M]
R395	ERJ3GEYJ750V	75 1/16W	[M]
R396	ERJ3GEYJ750V	75 1/16W	[M]
R397	ERJ3GEYJ750V	75 1/16W	[M]
R398	ERJ3GEYJ100V	10 1/16W	[M]
R401	ERJ3GEYJ102V	1K 1/16W	[M]
R402	ERJ3GEYJ102V	1K 1/16W	[M]
R403	ERJ3GEYJ102V	1K 1/16W	[M]
R404	ERJ3GEYJ102V	1K 1/16W	[M]
R405	ERJ3GEYJ102V	1K 1/16W	[M]
R406	ERJ3GEYJ102V	1K 1/16W	[M]
R407	ERJ3GEYJ102V	1K 1/16W	[M]
R408	ERJ3GEYJ102V	1K 1/16W	[M]
R409	ERJ3GEYJ102V	1K 1/16W	[M]
R410	ERJ3GEYJ102V	1K 1/16W	[M]
R411	ERJ3GEYJ102V	1K 1/16W	[M]
R412	ERJ3GEYJ102V	1K 1/16W	[M]
R413	ERJ3GEYJ102V	1K 1/16W	[M]
R414	ERJ3GEYJ102V	1K 1/16W	[M]
R415	ERJ3GEYJ102V	1K 1/16W	[M]
R416	ERJ3GEYJ102V	1K 1/16W	[M]
R417	ERJ3GEYJ102V	1K 1/16W	[M]
R418	ERJ3GEYJ102V	1K 1/16W	[M]
R419	ERJ3GEYJ272V	2.7K 1/16W	[M]
R420	ERJ3GEYJ272V	2.7K 1/16W	[M]
R421	ERJ3GEYJ102V	1K 1/16W	[M]
R422	ERJ3GEYJ102V	1K 1/16W	[M]
R425	ERJ3GEYJ684V	680K 1/16W	[M]
R426	ERJ3GEYJ822V	8.2K 1/16W	[M]
R428	ERJ3GEYJ392V	3.9K 1/16W	[M]
R429	ERJ3GEYJ622V	6.2K 1/16W	[M]
R430	ERJ3GEYJ272V	2.7K 1/16W	[M]
R431	ERJ3GEYJ272V	2.7K 1/16W	[M]
R432	ERJ3GEYJ272V	2.7K 1/16W	[M]
R433	ERJ3GEYJ272V	2.7K 1/16W	[M]
R435	ERJ3GEYJ102V	1K 1/16W	[M]
R436	ERJ3GEYJ393V	39K 1/16W	[M]
R437	ERJ3GEYJ333V	33K 1/16W	[M]
R438	ERJ3GEYJ102V	1K 1/16W	[M]
R439	ERJ3GEYJ102V	1K 1/16W	[M]
R440	ERJ3GEYJ102V	1K 1/16W	[M]
R441	ERJ3GEYJ102V	1K 1/16W	[M]
R442	ERJ3GEYJ682V	6.8K 1/16W	[M]
R443	ERJ3GEYJ682V	6.8K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R448	ERJ3GEYJ682V	6.8K 1/16W	[M]
R449	ERJ3GEYJ682V	6.8K 1/16W	[M]
R450	ERJ3GEYJ102V	1K 1/16W	[M]
R453	ERJ3GEYJ224V	220K 1/16W	[M]
R454	ERJ3GEYJ393V	39K 1/16W	[M]
R455	ERJ3GEYJ393V	39K 1/16W	[M]
R456	ERJ3GEYJ393V	39K 1/16W	[M]
R457	ERJ3GEYJ102V	1K 1/16W	[M]
R458	ERJ3GEYJ102V	1K 1/16W	[M]
R459	ERJ3GEYJ102V	1K 1/16W	[M]
R460	ERJ3GEYJ220V	22 1/16W	[M]
R461	ERJ3GEYJ220V	22 1/16W	[M]
R462	ERJ3GEYJ220V	22 1/16W	[M]
R464	ERJ3GEYJ220V	22 1/16W	[M]
R466	ERJ3GEYJ151V	150 1/16W	[M]
R468	ERJ3GEYJ151V	150 1/16W	[M]
R469	ERJ3GEYJ151V	150 1/16W	[M]
R470	ERJ3GEYJ151V	150 1/16W	[M]
R471	ERJ3GEYJ822V	8.2K 1/16W	[M]
R472	ERJ3GEYJ684V	680K 1/16W	[M]
R473	ERJ3GEYJ473V	47K 1/16W	[M]
R474	ERJ3GEYJ473V	47K 1/16W	[M]
R475	ERJ3GEYJ684V	680K 1/16W	[M]
R477	ERJ3GEYJ822V	8.2K 1/16W	[M]
R479	ERJ3GEYJ102V	1K 1/16W	[M]
R480	ERJ3GEYJ272V	2.7K 1/16W	[M]
R481	ERJ3GEYJ100V	10 1/16W	[M]
R482	ERJ3GEYJ100V	10 1/16W	[M]
R483	ERJ3GEYJ224V	220K 1/16W	[M]
R484	ERJ3GEYJ224V	220K 1/16W	[M]
R485	ERJ3GEYJ224V	220K 1/16W	[M]
R486	ERJ3GEYJ224V	220K 1/16W	[M]
R487	ERJ3GEYJ473V	47K 1/16W	[M]
R488	ERJ3GEYJ473V	47K 1/16W	[M]
R489	ERJ3GEYJ473V	47K 1/16W	[M]
R490	ERJ3GEYJ103V	10K 1/16W	[M]
R491	ERJ3GEYJ103V	10K 1/16W	[M]
R492	ERJ3GEYJ103V	10K 1/16W	[M]
R493	ERJ3GEYJ103V	10K 1/16W	[M]
R496	ERJ3GEYJ272V	2.7K 1/16W	[M]
R501	ERJ3GEYJ473V	47K 1/16W	[M]
R502	ERJ3GEYJ473V	47K 1/16W	[M]
R503	ERJ3GEYJ473V	47K 1/16W	[M]
R504	ERJ3GEYJ103V	10K 1/16W	[M]
R505	ERJ3GEYJ683V	68K 1/16W	[M]
R506	D0GB562JA008	5.6K 1/16W	[M]
R507	D0GB562JA008	5.6K 1/16W	[M]
R751	ERJ3GEYJ153V	15K 1/16W	[M]
R752	ERJ3GEYJ393V	39K 1/16W	[M]
R753	ERJ3GEYJ151V	150 1/16W	[M]
R754	ERJ3GEYJ472V	4.7K 1/16W	[M]
R755	ERJ3GEYJ151V	150 1/16W	[M]
R759	ERJ3GEYJ821V	820 1/16W	[M]
R760	ERJ3GEYJ272V	2.7K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R761	ERJ3GEYJ331V	330 1/16W	[M]
R762	ERD2FCVJ4R7T	4.7 1/4W	[M]
R763	ERJ3GEYJ471V	470 1/16W	[M]
R764	ERJ3GEYJ182V	1.8K 1/16W	[M]
R765	ERJ3GEYJ103V	10K 1/16W	[M]
R770	ERJ3GEYJ1R0V	1 1/16W	[M]
R771	ERJ3GEYJ1R0V	1 1/16W	[M]
R772	ERJ3GEYJ1R0V	1 1/16W	[M]
R773	ERJ3GEYJ1R0V	1 1/16W	[M]
R774	ERJ3GEYJ1R0V	1 1/16W	[M]
R775	ERJ3GEYJ122V	1.2K 1/16W	[M]
R776	ERD2FCVJ4R7T	4.7 1/4W	[M]
R777	ERJ3GEYJ471V	470 1/16W	[M]
R778	ERJ3GEYJ101V	100 1/16W	[M]
R901	ERJ3GEYJ102V	1K 1/16W	[M]
R902	ERJ3GEYJ333V	33K 1/16W	[M]
R903	ERJ3GEYJ333V	33K 1/16W	[M]
R904	ERJ3GEYJ103V	10K 1/16W	[M]
R905	ERJ3GEYJ103V	10K 1/16W	[M]
R906	ERJ3GEYJ273V	27K 1/16W	[M]
R907	ERJ3GEYJ472V	4.7K 1/16W	[M]
R908	ERJ3GEYJ104V	100K 1/16W	[M]
R909	ERJ3GEYJ102V	1K 1/16W	[M]
R911	ERJ3GEYJ103V	10K 1/16W	[M]
R913	ERJ3GEYJ103V	10K 1/16W	[M]
R914	ERJ3GEYJ103V	10K 1/16W	[M]
R915	ERJ3GEYJ101V	100 1/16W	[M]
R916	ERJ3GEYJ101V	100 1/16W	[M]
R917	ERJ3GEYJ102V	1K 1/16W	[M]
R918	ERJ3GEYJ103V	10K 1/16W	[M]
R919	ERJ3GEYJ103V	10K 1/16W	[M]
R920	ERJ3GEYJ271V	270 1/16W	[M]
R922	ERJ3GEYJ394V	390K 1/16W	[M]
R924	ERJ3GEYJ102V	1K 1/16W	[M]
R925	ERJ3GEYJ153V	15K 1/16W	[M]
R926	ERJ3GEYJ102V	1K 1/16W	[M]
R928	D0GB124JA002	120K 1/16W	[M]
R929	D0GB124JA002	120K 1/16W	[M]
R930	ERJ3GEYJ472V	4.7K 1/16W	[M]
R931	ERJ3GEYJ223V	22K 1/16W	[M]
R932	ERJ3GEYJ472V	4.7K 1/16W	[M]
R933	ERJ3GEYJ103V	10K 1/16W	[M]
R934	ERJ3GEYJ103V	10K 1/16W	[M]
R935	ERJ3GEYJ103V	10K 1/16W	[M]
R936	ERJ3GEYJ103V	10K 1/16W	[M]
R937	ERJ3GEYJ103V	10K 1/16W	[M]
R938	ERJ3GEYJ153V	15K 1/16W	[M]
R940	ERJ3GEYJ102V	1K 1/16W	[M]
R941	ERJ3GEYJ473V	47K 1/16W	[M]
R943	ERJ3GEYJ392V	3.9K 1/16W	[M]
R944	ERJ3GEYJ153V	15K 1/16W	[M]
R945	ERJ3GEYJ223V	22K 1/16W	[M]
R946	ERJ3GEYJ153V	15K 1/16W	[M]
R947	ERJ3GEYJ473V	47K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R948	ERJ3GEYJ473V	47K 1/16W	[M]
R949	ERJ3GEYJ473V	47K 1/16W	[M]
R951	ERJ3GEYJ103V	10K 1/16W	[M]
R952	ERJ3GEYJ102V	1K 1/16W	[M]
R953	ERJ3GEYJ122V	1.2K 1/16W	[M]
R954	ERJ3GEYJ152V	1.5K 1/16W	[M]
R955	ERJ3GEYJ102V	1K 1/16W	[M]
R981	ERJ3GEYJ102V	1K 1/16W	[M]
R982	ERJ3GEYJ122V	1.2K 1/16W	[M]
R983	ERJ3GEYJ152V	1.5K 1/16W	[M]
R984	ERJ3GEYJ182V	1.8K 1/16W	[M]
R985	ERJ3GEYJ222V	2.2K 1/16W	[M]
R986	ERJ3GEYJ822V	8.2K 1/16W	[M]
R987	ERJ3GEYJ271V	270 1/16W	[M]
R991	ERJ3GEYJ153V	15K 1/16W	[M]
R992	ERJ3GEYJ153V	15K 1/16W	[M]
R993	ERJ3GEYJ750V	75 1/16W	[M]
R994	ERJ3GEYJ750V	75 1/16W	[M]
R995	ERJ3GEYJ750V	75 1/16W	[M]
R997	ERJ3GEYJ103V	10K 1/16W	[M]
R1001	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1002	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1003	ERJ3GEYJ103V	10K 1/16W	[M]
R1004	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1005	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1006	ERJ3GEYJ103V	10K 1/16W	[M]
R1007	ERJ3GEYJ103V	10K 1/16W	[M]
R1008	ERJ3GEYJ103V	10K 1/16W	[M]
R1009	ERJ3GEYJ103V	10K 1/16W	[M]
R1010	ERJ3GEYJ103V	10K 1/16W	[M]
R1011	ERJ3GEYJ103V	10K 1/16W	[M]
R1012	ERJ3GEYJ103V	10K 1/16W	[M]
R1013	ERJ3GEYJ103V	10K 1/16W	[M]
R1014	ERJ3GEYJ103V	10K 1/16W	[M]
R1015	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1016	ERJ3GEYJ104V	100K 1/16W	[M]
R1017	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1018	ERJ3GEYJ330V	33 1/16W	[M]
R1019	ERJ3GEYJ102V	1K 1/16W	[M]
R1020	ERJ3GEYJ102V	1K 1/16W	[M]
R1021	ERJ3GEYJ102V	1K 1/16W	[M]
R1022	ERJ3GEYJ102V	1K 1/16W	[M]
R1023	ERJ3GEYJ105V	1M 1/16W	[M]
R1024	ERJ3GEYJ102V	1K 1/16W	[M]
R1025	ERJ3GEYJ104V	100K 1/16W	[M]
R1026	ERJ3GEYJ104V	100K 1/16W	[M]
R1027	ERJ3GEYJ104V	100K 1/16W	[M]
R1028	ERJ3GEYJ330V	33 1/16W	[M]
R1029	ERJ3GEYJ102V	1K 1/16W	[M]
R1030	ERJ3GEYJ102V	1K 1/16W	[M]
R1101	ERJ3GEY0R00V	0 1/16W	[M]
R1106	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1108	ERJ3GEY0R00V	0 1/16W	[M]
R1109	ERJ3GEY0R00V	0 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1110	ERJ3GEY0R00V	0 1/16W	[M]
R1111	ERJ3GEYJ104V	100K 1/16W	[M]
R1112	ERJ3GEY0R00V	0 1/16W	[M]
R1113	ERJ3GEY0R00V	0 1/16W	[M]
R1114	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1115	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1116	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1117	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1118	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1119	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1120	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1121	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1122	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1123	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1124	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1125	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1201	D0GB562JA008	5.6K 1/16W	[M]
R1202	D0GB562JA008	5.6K 1/16W	[M]
R1203	D0GB562JA008	5.6K 1/16W	[M]
R1204	D0GB562JA008	5.6K 1/16W	[M]
R1205	D0GB562JA008	5.6K 1/16W	[M]
R1206	D0GB562JA008	5.6K 1/16W	[M]
R1207	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1208	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1209	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1210	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1211	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1212	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1213	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1214	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1215	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1216	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1217	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1218	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1219	ERJ3GEYJ102V	1K 1/16W	[M]
R1220	ERJ3GEYJ102V	1K 1/16W	[M]
R1221	ERJ3GEYJ102V	1K 1/16W	[M]
R1222	ERJ3GEYJ102V	1K 1/16W	[M]
R1223	ERJ3GEYJ102V	1K 1/16W	[M]
R1224	ERJ3GEYJ102V	1K 1/16W	[M]
R1225	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1226	D0GB562JA008	5.6K 1/16W	[M]
R1227	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1228	D0GB562JA008	5.6K 1/16W	[M]
R1229	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1230	D0GB562JA008	5.6K 1/16W	[M]
R1231	D0GB562JA008	5.6K 1/16W	[M]
R1232	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1233	D0GB562JA008	5.6K 1/16W	[M]
R1234	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1235	D0GB562JA008	5.6K 1/16W	[M]
R1236	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1237	ERJ3GEYJ473V	47K 1/16W	[M]
R1238	ERJ3GEYJ473V	47K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1239	ERJ3GEYJ473V	47K 1/16W	[M]
R1240	ERJ3GEYJ473V	47K 1/16W	[M]
R1241	ERJ3GEYJ473V	47K 1/16W	[M]
R1242	ERJ3GEYJ473V	47K 1/16W	[M]
R1301	ERJ3GEYJ750V	75 1/16W	[M]
R1302	ERJ3GEYJ100V	10 1/16W	[M]
R1303	ERJ3GEYJ100V	10 1/16W	[M]
R1401	ERJ3GEY0R00V	0 1/16W	[M]
R1402	ERJ3GEY0R00V	0 1/16W	[M]
R1403	ERJ3GEY0R00V	0 1/16W	[M]
R1404	ERJ3GEY0R00V	0 1/16W	[M]
R1405	ERJ3GEY0R00V	0 1/16W	[M]
R1406	ERJ3GEY0R00V	0 1/16W	[M]
R1407	ERJ3GEY0R00V	0 1/16W	[M]
R1408	ERJ3GEY0R00V	0 1/16W	[M]
R1409	ERJ3GEY0R00V	0 1/16W	[M]
R1410	ERJ3GEY0R00V	0 1/16W	[M]
R1411	ERJ3GEY0R00V	0 1/16W	[M]
R1412	ERJ3GEY0R00V	0 1/16W	[M]
R1701	ERJ3GEYJ151V	150 1/16W	[M]
R1702	ERJ3GEYJ272V	2.7K 1/16W	[M]
R1703	ERDS1FVJ4R7T	4.7 1/2W	[M]
R1704	ERDS1FVJ4R7T	4.7 1/2W	[M]
		CAPACITORS	
C201	ECJ1VB1E103K	0.01 25V	[M]
C202	ECJ1VB1H332K	3300P 50V	[M]
C203	ECJ1VB1H332K	3300P 50V	[M]
C204	ECJ1VB1H102K	1000P 50V	[M]
C220	ECA1EAK100XB	10 25V	[M]
C221	ECJ1VB1H331K	330P 50V	[M]
C222	ECA1CAK470XB	47 16V	[M]
C223	ECJ1VB1H561K	560P 50V	[M]
C224	ECJ1VB1H102K	1000P 50V	[M]
C225	ECA1CAK470XB	47 16V	[M]
C226	ECJ1VB1H102K	1000P 50V	[M]
C227	ECJ1VB1H103K	0.01 50V	[M]
C228	ECJ1VC1H470J	47P 50V	[M]
C229	ECJ1VC1H470J	47P 50V	[M]
C351	ECJ1VC1H470J	47P 50V	[M]
C352	ECJ1VC1H470J	47P 50V	[M]
C353	ECA1CAK470XB	47 16V	[M]
C354	ECA1CAK470XB	47 16V	[M]
C355	ECA1CAK470XB	47 16V	[M]
C356	ECA1CAK470XB	47 16V	[M]
C357	ECJ1VF1C104Z	0.1 16V	[M]
C358	ECJ1VF1C104Z	0.1 16V	[M]
C359	ECA0JAK101XB	100 6.3V	[M]
C360	ECA0JAK101XB	100 6.3V	[M]
C361	ECJ1VB1H103K	0.01 50V	[M]
C362	ECA0JAK101XB	100 6.3V	[M]
C363	ECA0JAK101XB	100 6.3V	[M]
C364	ECJ1VB1H103K	0.01 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C381	ECA1HAKR47XB	0.47 50V	[M]
C382	ECJ1VC1H470J	47P 50V	[M]
C383	ECA1HAKR47XB	0.47 50V	[M]
C384	ECJ1VC1H470J	47P 50V	[M]
C385	ECA1HAK2R2XB	2.2 50V	[M]
C386	ECA1HAK2R2XB	2.2 50V	[M]
C387	ECJ1VF1C104Z	0.1 16V	[M]
C388	ECA1EAK470XB	47 25V	[M]
C389	ECJ1VF1C104Z	0.1 16V	[M]
C399	ECJ1VC1H101J	100P 50V	[M]
C401	ECJ1VC1H101J	100P 50V	[M]
C402	ECJ1VC1H101J	100P 50V	[M]
C403	ECJ1VC1H101J	100P 50V	[M]
C404	ECJ1VC1H101J	100P 50V	[M]
C405	ECJ1VC1H101J	100P 50V	[M]
C406	ECJ1VC1H101J	100P 50V	[M]
C407	ECJ1VC1H101J	100P 50V	[M]
C408	ECJ1VC1H101J	100P 50V	[M]
C409	ECJ1VC1H101J	100P 50V	[M]
C410	ECJ1VC1H101J	100P 50V	[M]
C411	ECJ1VC1H101J	100P 50V	[M]
C412	ECJ1VC1H101J	100P 50V	[M]
C413	ECJ1VC1H101J	100P 50V	[M]
C414	ECJ1VC1H101J	100P 50V	[M]
C415	ECJ1VC1H101J	100P 50V	[M]
C416	ECJ1VC1H101J	100P 50V	[M]
C417	ECJ1VC1H101J	100P 50V	[M]
C418	ECJ1VC1H101J	100P 50V	[M]
C419	ECJ1VC1H101J	100P 50V	[M]
C420	ECJ1VC1H101J	100P 50V	[M]
C421	ECJ1VC1H101J	100P 50V	[M]
C422	ECJ1VC1H101J	100P 50V	[M]
C423	ECJ1VC1H101J	100P 50V	[M]
C424	ECJ1VC1H101J	100P 50V	[M]
C425	ECJ1VC1H101J	100P 50V	[M]
C426	ECJ1VC1H101J	100P 50V	[M]
C427	ECJ1VC1H101J	100P 50V	[M]
C428	ECJ1VC1H101J	100P 50V	[M]
C429	ECJ1VC1H101J	100P 50V	[M]
C430	ECJ1VC1H101J	100P 50V	[M]
C431	ECJ1VC1H101J	100P 50V	[M]
C434	ECJ1VC1H101J	100P 50V	[M]
C436	ECJ1VC1H101J	100P 50V	[M]
C437	ECJ1VC1H101J	100P 50V	[M]
C438	ECJ1VC1H101J	100P 50V	[M]
C439	ECJ1VC1H101J	100P 50V	[M]
C440	ECA1HAK2R2XB	2.2 50V	[M]
C441	ECA1HAK2R2XB	2.2 50V	[M]
C442	ECA1HAK2R2XB	2.2 50V	[M]
C443	ECA1HAK2R2XB	2.2 50V	[M]
C444	ECA1HAK2R2XB	2.2 50V	[M]
C445	ECA1HAK2R2XB	2.2 50V	[M]
C448	ECA1HAK2R2XB	2.2 50V	[M]
C449	ECA1HAK2R2XB	2.2 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C450	ECA1HAK2R2XB	2.2 50V	[M]
C451	ECA1HAK2R2XB	2.2 50V	[M]
C452	ECA1HAK2R2XB	2.2 50V	[M]
C453	ECA1HAK2R2XB	2.2 50V	[M]
C454	ECA1HAK2R2XB	2.2 50V	[M]
C455	ECA1CAK101XB	100 16V	[M]
C456	ECA1HAK2R2XB	2.2 50V	[M]
C457	ECJ1VF1C104Z	0.1 16V	[M]
C458	ECA1CAK101XB	100 16V	[M]
C459	ECA1HAK2R2XB	2.2 50V	[M]
C460	ECJ1VF1C104Z	0.1 16V	[M]
C461	ECA1HAK2R2XB	2.2 50V	[M]
C462	ECA1HAK4R7XB	4.7 50V	[M]
C463	ECA1HAK2R2XB	2.2 50V	[M]
C464	ECA1HAK010XB	1 50V	[M]
C465	ECA1HAK2R2XB	2.2 50V	[M]
C466	ECA1HAK100XB	10 50V	[M]
C467	ECA1HAK2R2XB	2.2 50V	[M]
C468	ECA1HAK4R7XB	4.7 50V	[M]
C469	ECA1HAK2R2XB	2.2 50V	[M]
C470	ECJ1VF1C104Z	0.1 16V	[M]
C471	ECA1HAK4R7XB	4.7 50V	[M]
C472	ECA1CAK101XB	100 16V	[M]
C474	ECA1HAK100XB	10 50V	[M]
C475	ECA1HAK100XB	10 50V	[M]
C476	ECA1HAK4R7XB	4.7 50V	[M]
C477	ECA1HAK4R7XB	4.7 50V	[M]
C478	ECA1HAK100XB	10 50V	[M]
C479	ECA1HAK100XB	10 50V	[M]
C480	ECA1HAK4R7XB	4.7 50V	[M]
C481	ECA1HAK4R7XB	4.7 50V	[M]
C482	ECA1HAK4R7XB	4.7 50V	[M]
C492	ECJ1VF1C104Z	0.1 16V	[M]
C495	ECA1CAK100XB	10 16V	[M]
C496	ECJ1VC1H330J	33P 50V	[M]
C497	ECJ1VC1H101J	100P 50V	[M]
C498	ECJ1VC1H330J	33P 50V	[M]
C499	ECJ1VC1H101J	100P 50V	[M]
C502	F1J1A105A003	10 10V	[M]
C503	F1J1A105A003	10 10V	[M]
C506	ECJ1VB1E103K	0.01 25V	[M]
C507	ECJ1VC1H101J	100P 50V	[M]
C508	ECJ1VB1H822K	8200P 50V	[M]
C509	ECJ1VC1H330J	33P 50V	[M]
C510	ECJ1VC1H101J	100P 50V	[M]
C511	ECA1HAK010XB	1 50V	[M]
C512	ECA1CAK100XB	10 16V	[M]
C513	ECA1CAK100XB	10 16V	[M]
C514	ECJ1VC1H470J	47P 50V	[M]
C515	ECJ1VC1H101J	100P 50V	[M]
C516	ECJ1VC1H470J	47P 50V	[M]
C517	ECJ1VC1H101J	100P 50V	[M]
C518	ECA1CAK100XB	10 16V	[M]
C519	ECJ1VB1E103K	0.01 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C520	ECJ1VB1H102K	1000P 50V	[M]
C521	ECJ1VB1H102K	1000P 50V	[M]
C522	ECA1CAK100XB	10 16V	[M]
C523	ECJ1VF1C104Z	0.1 16V	[M]
C524	ECJ1VF1C104Z	0.1 16V	[M]
C525	ECA1CAK100XB	10 16V	[M]
C526	ECA1CAK100XB	10 16V	[M]
C527	ECA1CAK100XB	10 16V	[M]
C528	ECA1CAK100XB	10 16V	[M]
C530	ECJ1VF1C104Z	0.1 16V	[M]
C531	ECJ1VB1A224K	0.22 10V	[M]
C532	ECJ1VB1A224K	0.22 10V	[M]
C533	ECJ1VB1A224K	0.22 10V	[M]
C534	ECJ1VB1A224K	0.22 10V	[M]
C535	ECA1HAKR47XB	0.47 50V	[M]
C536	ECJ1VB1A224K	0.22 10V	[M]
C537	ECJ1VC1H330J	33P 50V	[M]
C538	ECJ1VC1H330J	33P 50V	[M]
C539	ECJ1VC1H330J	33P 50V	[M]
C540	ECJ1VB1A154K	0.15 10V	[M]
C541	ECJ1VB1A224K	0.22 10V	[M]
C542	ECJ1VB1H473K	0.047 50V	[M]
C543	ECJ1VB1H473K	0.047 50V	[M]
C750	ECA1EAM472XE	4700 25V	[M]
C751	ECQE1104KF3	0.1 100V	[M]
C752	ECA1HAM101XB	100 50V	[M]
C753	ECJ1VB1H103K	0.01 50V	[M]
C754	ECA1CAM102XB	1000 16V	[M]
C755	ECA1EAK330XB	33 25V	[M]
C756	ECA1HAM101XB	100 50V	[M]
C757	ECA1CAK101XB	100 16V	[M]
C758	ECJ1VB1E103K	0.01 25V	[M]
C759	ECJ1VB1E103K	0.01 25V	[M]
C760	ECA1HAM101XB	100 50V	[M]
C761	ECA1JM101B	100 63V	[M]
C762	ECA1CAK101XB	100 16V	[M]
C763	ECA1CAK101XB	100 16V	[M]
C764	ECJ1VB1E103K	0.01 25V	[M]
C765	ECJ1VB1E103K	0.01 25V	[M]
C766	ECA1EAK330XB	33 25V	[M]
C767	ECA1CAM102XB	1000 16V	[M]
C768	ECA1JM101B	100 63V	[M]
C769	ECEA1HKN4R7B	4.7 50V	[M]
C770	ECJ1VF1C104Z	0.1 16V	[M]
C780	ECJ1VB1H103K	0.01 50V	[M]
C781	ECA1CAK101XB	100 16V	[M]
C782	ECA1CAK470XB	47 16V	[M]
C901	ECA0JAM102XB	1000 6.3V	[M]
C902	ECJ1VF1C104Z	0.1 16V	[M]
C903	ECJ1VB1E103K	0.01 25V	[M]
C904	ECA0JAM102XB	1000 6.3V	[M]
C905	ECA1HAK010XB	1 50V	[M]
C908	ECJ1VB1E103K	0.01 25V	[M]
C909	ECA1HAK220XB	22 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C910	ECA1HAK220XB	22 50V	[M]
C911	ECA1HAK220XB	22 50V	[M]
C912	ECA1HAK220XB	22 50V	[M]
C913	ECA1HAK100XB	10 50V	[M]
C914	ECA1HAK100XB	10 50V	[M]
C915	ECA0JAK101XB	100 6.3V	[M]
C916	ECJ1VB1H103K	0.01 50V	[M]
C917	ECJ1VB1H103K	0.01 50V	[M]
C921	ECA1CAK101XB	100 16V	[M]
C922	ECA1CAK101XB	100 16V	[M]
C923	ECJ1VF1C104Z	0.1 16V	[M]
C924	ECJ1VF1C104Z	0.1 16V	[M]
C925	ECJ1VF1C104Z	0.1 16V	[M]
C928	ECA1CAK100XB	10 16V	[M]
C929	ECA1CAK100XB	10 16V	[M]
C930	ECA1CAK100XB	10 16V	[M]
C931	ECJ1VB1H103K	0.01 50V	[M]
C932	ECJ1VB1H103K	0.01 50V	[M]
C933	ECJ1VF1C104Z	0.1 16V	[M]
C935	ECA1HAK010XB	1 50V	[M]
C940	ECJ1VB1H331K	330P 50V	[M]
C941	ECJ1VB1H331K	330P 50V	[M]
C942	ECJ1VB1H331K	330P 50V	[M]
C943	ECJ1VB1H331K	330P 50V	[M]
C944	ECJ1VB1H331K	330P 50V	[M]
C945	ECJ1VB1H331K	330P 50V	[M]
C946	ECJ1VB1H331K	330P 50V	[M]
C947	ECJ1VB1H331K	330P 50V	[M]
C948	ECJ1VB1H331K	330P 50V	[M]
C949	ECJ1VB1H331K	330P 50V	[M]
C951	ECJ1VB1H102K	1000P 50V	[M]
C952	ECJ1VB1H473K	0.047 50V	[M]
C953	ECJ1VB1H473K	0.047 50V	[M]
C954	ECJ1VC1H101J	100P 50V	[M]
C955	ECJ1VC1H101J	100P 50V	[M]
C956	ECJ1VC1H101J	100P 50V	[M]
C981	ECJ1VB1H103K	0.01 50V	[M]
C1001	ECA1HAK010XB	1 50V	[M]
C1002	ECJ1VF1C104Z	0.1 16V	[M]
C1003	ECA0JAK101XB	100 6.3V	[M]
C1004	ECA1HAK010XB	1 50V	[M]
C1005	ECA1HAK010XB	1 50V	[M]
C1006	ECJ1VF1C104Z	0.1 16V	[M]
C1007	ECJ1VF1C104Z	0.1 16V	[M]
C1008	ECA1HAK2R2XB	2.2 50V	[M]
C1009	ECJ1VC1H221J	220P 50V	[M]
C1010	ECJ1VB1H103K	0.01 50V	[M]
C1011	ECA0JAK101XB	100 6.3V	[M]
C1012	ECJ1VF1C104Z	0.1 16V	[M]
C1013	ECJ1VF1C104Z	0.1 16V	[M]
C1015	ECJ1VC1H101J	100P 50V	[M]
C1016	ECJ1VC1H101J	100P 50V	[M]
C1017	ECJ1VC1H101J	100P 50V	[M]
C1018	ECJ1VB1H102K	1000P 50V	[M]

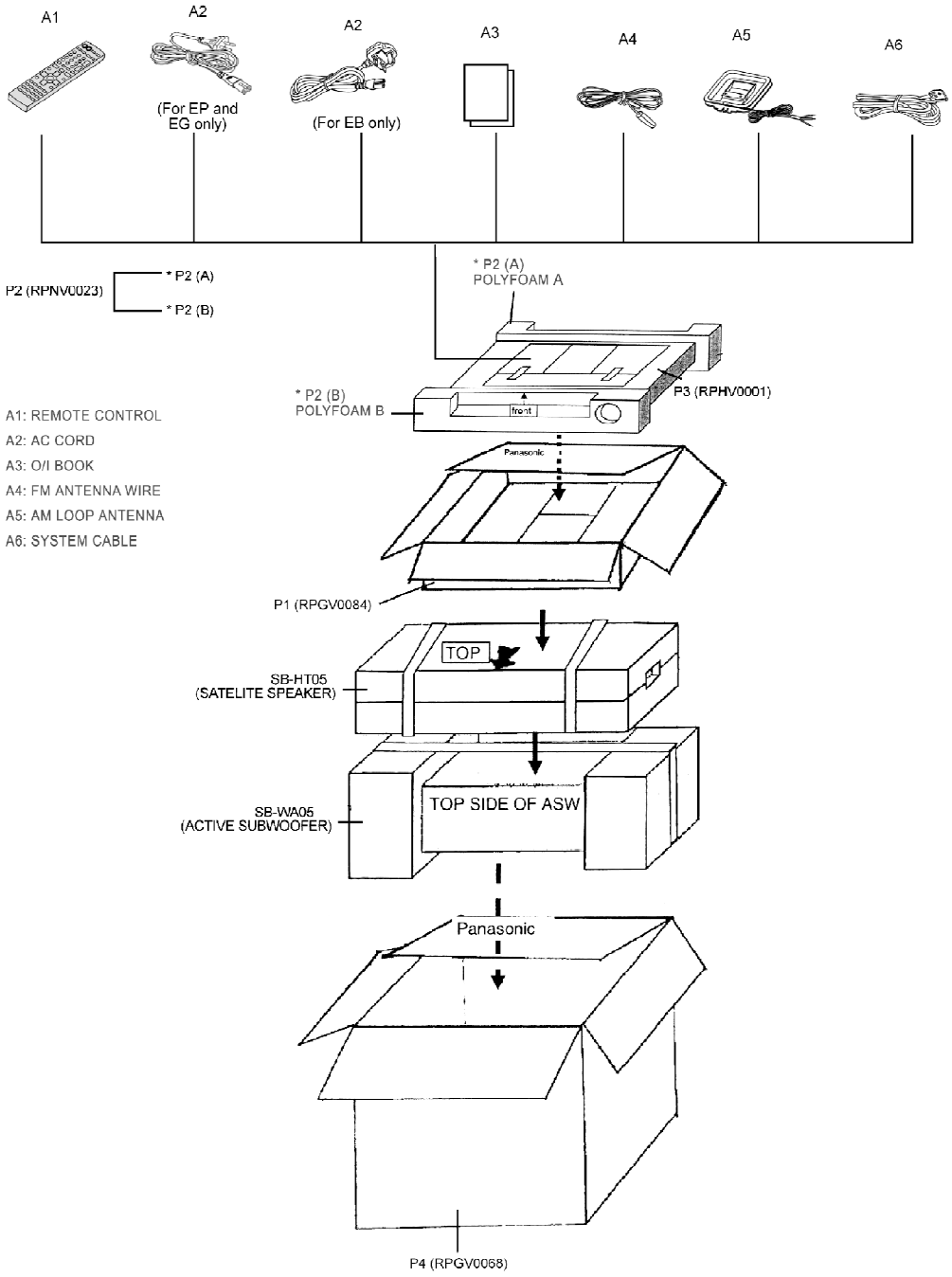
Ref. No.	Part No.	Part Name & Description	Remarks
C1019	ECJ1VB1H102K	1000P 50V	[M]
C1020	ECJ1VF1C104Z	0.1 16V	[M]
C1021	ECJ1VF1C104Z	0.1 16V	[M]
C1022	ECJ1VF1C104Z	0.1 16V	[M]
C1023	F1H1H220A230	22P 50V	[M]
C1024	ECA0JAK101XB	100 6.3V	[M]
C1025	F1H1H220A230	22P 50V	[M]
C1026	ECJ1VF1C104Z	0.1 16V	[M]
C1027	ECJ1VC1H101J	100P 50V	[M]
C1101	ECA1CAK100XB	10 16V	[M]
C1102	ECJ1VF1C104Z	0.1 16V	[M]
C1103	ECJ1VF1C104Z	0.1 16V	[M]
C1104	ECJ1VF1C104Z	0.1 16V	[M]
C1105	ECA1CAK100XB	10 16V	[M]
C1106	ECJ1VB1H153K	0.015 50V	[M]
C1107	ECJ1VF1C104Z	0.1 16V	[M]
C1108	ECJ1VB1H682K	6800P 50V	[M]
C1110	ECA1CAK100XB	10 16V	[M]
C1111	ECJ1VF1C104Z	0.1 16V	[M]
C1117	ECJ1VB1H272K	2700P 50V	[M]
C1118	ECJ1VB1H272K	2700P 50V	[M]
C1119	ECJ1VF1C104Z	0.1 16V	[M]
C1120	ECJ1VF1C104Z	0.1 16V	[M]
C1121	ECJ1VF1C104Z	0.1 16V	[M]
C1122	ECA1CAK101XB	100 16V	[M]
C1123	ECA1HAK4R7XB	4.7 50V	[M]
C1124	ECA1CAK100XB	10 16V	[M]
C1125	ECJ1VC1H101J	100P 50V	[M]
C1126	ECJ1VB1H103K	0.01 50V	[M]
C1127	ECJ1VB1H561K	560P 50V	[M]
C1128	ECJ1VB1H561K	560P 50V	[M]
C1129	ECJ1VB1H561K	560P 50V	[M]
C1130	ECJ1VB1H561K	560P 50V	[M]
C1131	ECA1CAK101XB	100 16V	[M]
C1132	ECA1CAK101XB	100 16V	[M]
C1201	ECJ1VB1H182K	1800P 50V	[M]
C1202	ECJ1VB1H562K	5600P 50V	[M]
C1203	ECJ1VB1H182K	1800P 50V	[M]
C1204	ECJ1VB1H562K	5600P 50V	[M]
C1205	ECJ1VB1H182K	1800P 50V	[M]
C1206	ECJ1VB1H562K	5600P 50V	[M]
C1207	ECJ1VB1H562K	5600P 50V	[M]
C1208	ECJ1VB1H182K	1800P 50V	[M]
C1209	ECJ1VB1H562K	5600P 50V	[M]
C1210	ECJ1VB1H182K	1800P 50V	[M]
C1211	ECJ1VB1H562K	5600P 50V	[M]
C1212	ECJ1VB1H182K	1800P 50V	[M]
C1213	ECA1CAK220XB	22 16V	[M]
C1214	ECA1CAK220XB	22 16V	[M]
C1215	ECA1CAK220XB	22 16V	[M]
C1216	ECJ1VB1H122K	1200P 50V	[M]
C1217	ECA1CAK220XB	22 16V	[M]
C1218	ECJ1VB1H122K	1200P 50V	[M]
C1219	ECA1CAK220XB	22 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1220	ECJ1VB1H122K	1200P 50V	[M]
C1221	ECA1CAK220XB	22 16V	[M]
C1222	ECJ1VB1H122K	1200P 50V	[M]
C1223	ECJ1VB1H122K	1200P 50V	[M]
C1224	ECJ1VB1H122K	1200P 50V	[M]
C1225	ECJ1VB1H391K	390P 50V	[M]
C1226	ECJ1VB1H391K	390P 50V	[M]
C1227	ECJ1VB1H391K	390P 50V	[M]
C1228	ECJ1VB1H391K	390P 50V	[M]
C1229	ECJ1VB1H391K	390P 50V	[M]
C1230	ECJ1VB1H391K	390P 50V	[M]
C1231	ECA1CAK100XB	10 16V	[M]
C1232	ECA1CAK100XB	10 16V	[M]
C1233	ECA1CAK100XB	10 16V	[M]
C1234	ECA1CAK100XB	10 16V	[M]
C1235	ECA1CAK100XB	10 16V	[M]
C1236	ECA1CAK100XB	10 16V	[M]
C1237	ECJ1VB1H103K	0.01 50V	[M]
C1238	ECJ1VB1H103K	0.01 50V	[M]
C1239	ECJ1VB1H103K	0.01 50V	[M]
C1240	ECJ1VB1H103K	0.01 50V	[M]
C1241	ECJ1VB1H103K	0.01 50V	[M]
C1242	ECJ1VB1H103K	0.01 50V	[M]
C1243	ECJ1VC1H101J	100P 50V	[M]
C1245	ECA1EAK470XB	47 25V	[M]
C1246	ECA1EAK470XB	47 25V	[M]
C1301	ECJ1VB1H103K	0.01 50V	[M]
C1302	F1H1H104A783	0.1 50V	[M]
C1303	ECJ1VB1H103K	0.01 50V	[M]
C1304	F1H1H104A783	0.1 50V	[M]
C1305	ECJ1VF1C104Z	0.1 16V	[M]
C1306	ECJ1VF1C104Z	0.1 16V	[M]
C1307	ECJ1VF1C104Z	0.1 16V	[M]
C1308	ECA0JAK101XB	100 6.3V	[M]
C1309	ECJ1VB1H103K	0.01 50V	[M]
C1310	ECJ1VF1C104Z	0.1 16V	[M]
C1311	ECJ1VF1C104Z	0.1 16V	[M]
C1412	ECJ1VC1H101J	100P 50V	[M]
C1701	ECA1CAK220XB	22 16V	[M]
C1702	ECJ1VB1H391K	390P 50V	[M]
C1703	ECA1CAK100XB	10 16V	[M]
C1704	ECJ1VB1H103K	0.01 50V	[M]
C1705	ECA1CAK101XB	100 16V	[M]
C1706	ECA1AM332E	3300 10V	[M]

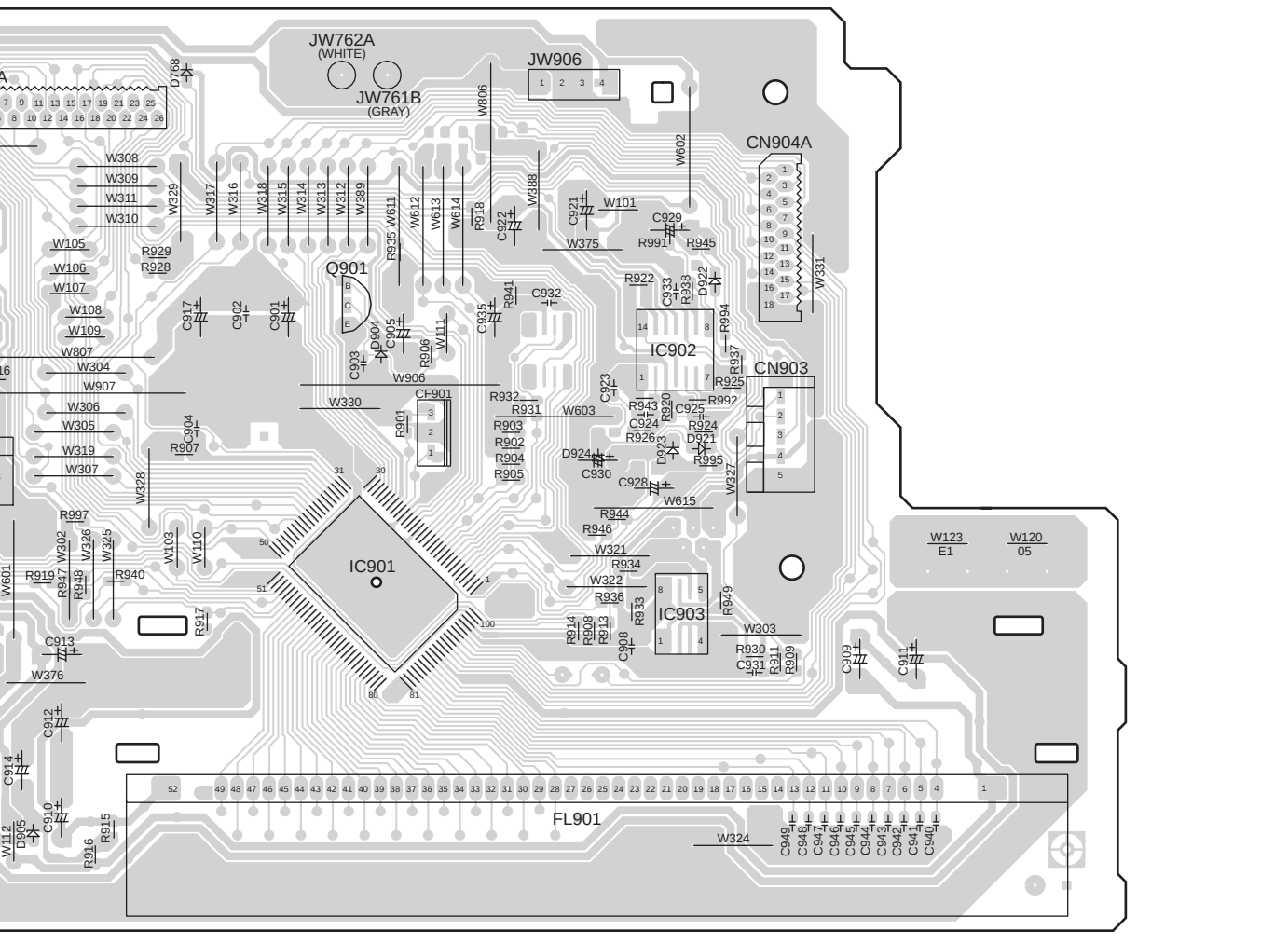
19.3. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGV0084	PACKING CASE	[M]
P2	RPNV0023	POLYFOAM	[M]
P3	RPHV0001	MIRAMAT SHEET	[M]
P4	RPGV0068	OUTER PACKING CASE	[M]
		ACCESSORIES	
A1	EUR7722040	REMOTE CONTROL	[M]
A1-1	UR76EC3103A	R/C BATTERY COVER	[M]
A2	RJA0019-2X	AC CORD	[M]EG/ EP ⚠
A2	RJA0053-3X	AC CORD	[M]EB ⚠
A3	RQT7382-D	O/I BOOK (Ge/It/Fr)	[M]EG
A3	RQT7383-H	O/I BOOK (Sp/Du/Da/Sw)	[M]EG
A3	RQT7384-B	O/I BOOK (En)	[M]EB/EP
A3	RQT7385-R	O/I BOOK (Ru/PL/Cz)	[M]EP
A4	RSA0007-L	FM ANTENNA WIRE	[M]
A5	N1DAAAA00002	AM LOOP ANTENNA	[M]
A6	K1HA25HA0001	SYSTEM CABLE	[M]

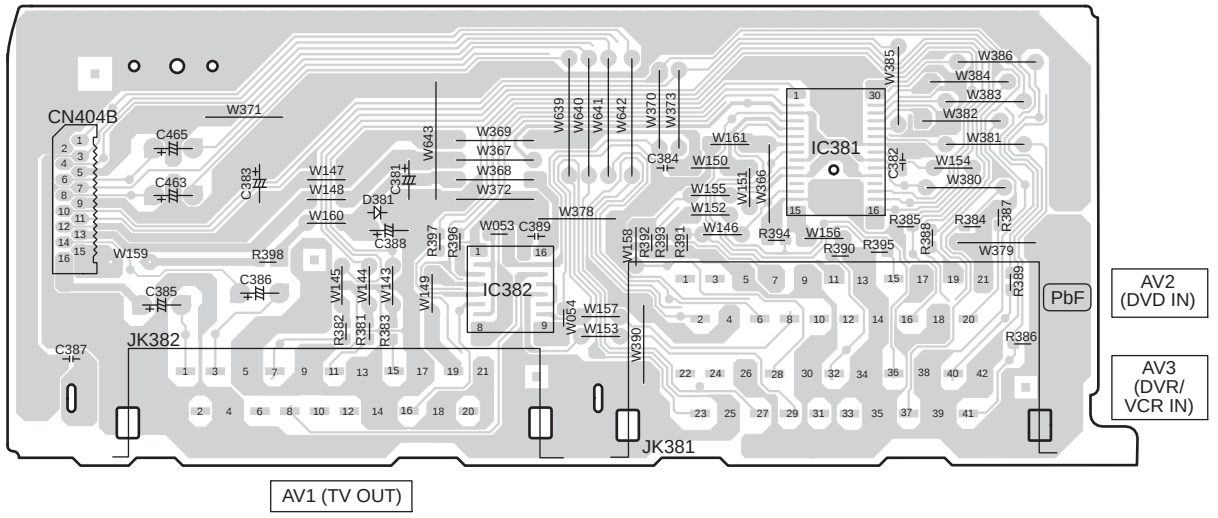
19.4. Packaging



PRT0402D/S/J/E/A/N


G
H
I
J
K
L
M
JW762A
(WHITE)
JW761B
(GRAY)
JW906
CN904A
CN903
IC901
IC902
IC903
Q901
CF901
FL901
W123
E1
W120
05

H SCART P.C.B (REPV0011B-M)



Remote control

This page describes the buttons used to control this unit.

[⏻, RECEIVER]
Standby/on button.

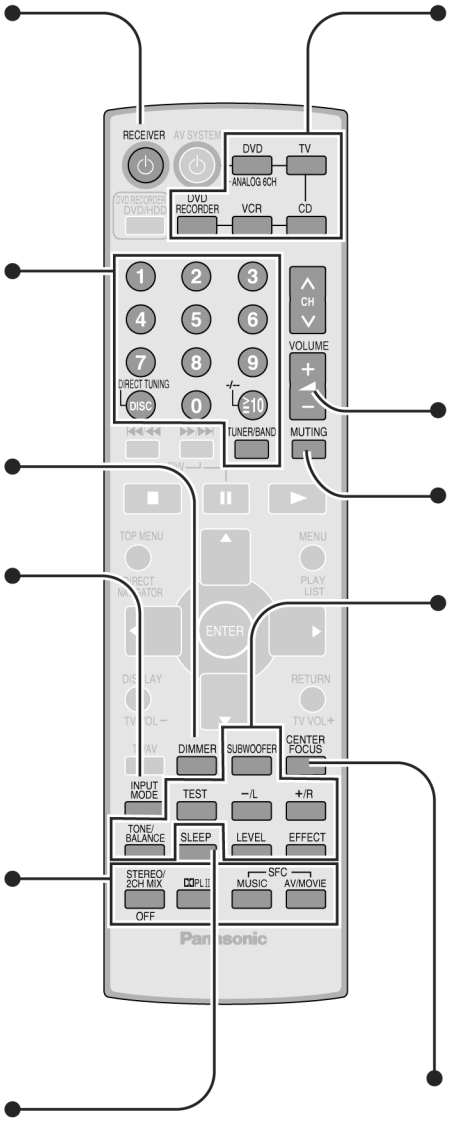
[1, 2, 3, 4, 5, 6, 7, 8, 9, 0]
To enter radio frequencies and channels.
[≧ 10, -/--]
To enter two digit channels.
[DISC, DIRECT TUNING]
To enable selection of radio stations by frequency.
[TUNER/BAND]
For switching between FM and AM.
[∧, CH, ∨]
For selecting preset radio channels.

[DIMMER]
For dimming the unit's display

[INPUT MODE]
For selecting AUTO, ANALOG or DIGITAL.

[STEREO/2CH MIX, OFF]
For selecting STEREO or 2CH MIX mode.
[PL II]
For selecting a Dolby Pro Logic II mode: MOVIE, MUSIC or PANORAMA.
[MUSIC]
For selecting SFC modes: LIVE, POP/ROCK, VOCAL, JAZZ, DANCE or PARTY.
[AV/MOVIE]
For selecting SFC modes: DRAMA, ACTION, SPORTS, MUSICAL, GAME or MONO.

[SLEEP] SC-HT07
To start the sleep timer.



SC-HT07
[DVD, -ANALOG 6CH] [TV] [DVD RECORDER] [VCR] [CD]

SC-HT05
[DVD, -ANALOG 6CH] [TV] [DVD RECORDER] [VCR] [GAME/AUX]
Input mode and remote control mode buttons.

[DVD, -ANALOG 6CH]
Press and hold and DVD input switches between 6-channel and 2-channel.

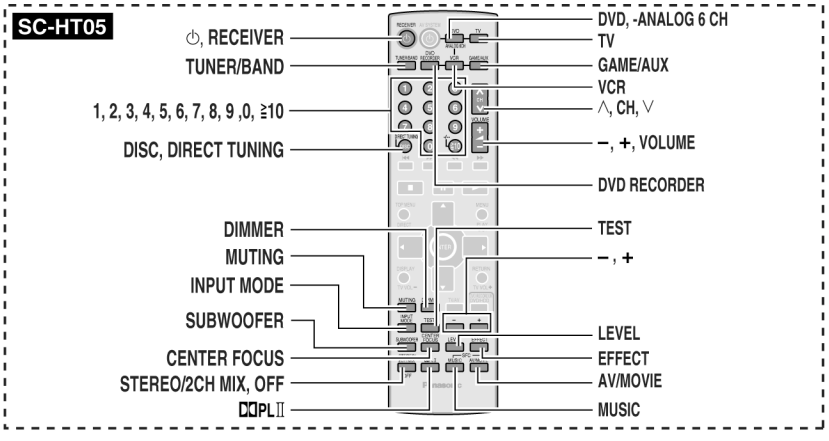
[+, −, VOLUME]
To adjust the volume.

[MUTING]
To mute the volume.

[SUBWOOFER]
For selecting subwoofer level.
[TEST]
To start the speaker test signal.
[TONE/BALANCE] SC-HT07
To adjust the bass, treble and front speaker balance.
[LEVEL]
Use when adjusting speaker level.
[EFFECT]
Use when adjusting Dolby Pro Logic II or SFC effects.
[−/L, +/R] (−, +)
First select SLEEP, EFFECT, LEVEL, TONE or BALANCE, then press [−/L] or [+/R] to adjust.

[CENTER FOCUS]
For selecting center focus mode.

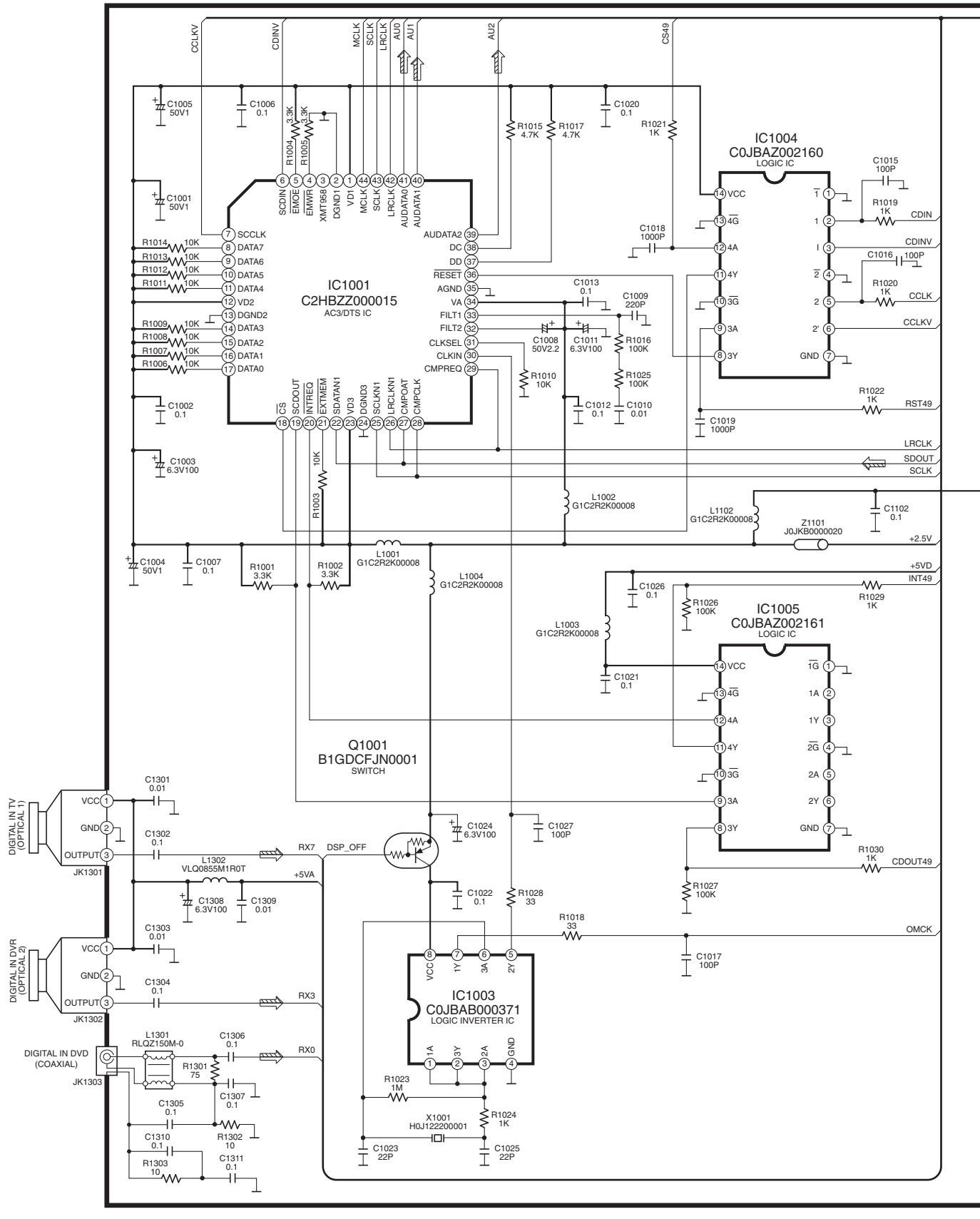
SC-HT05



SCHEMATIC DIAGRAM - 1

A DSP CIRCUIT

: +B SIGNAL LINE
: MAIN SIGNAL LINE

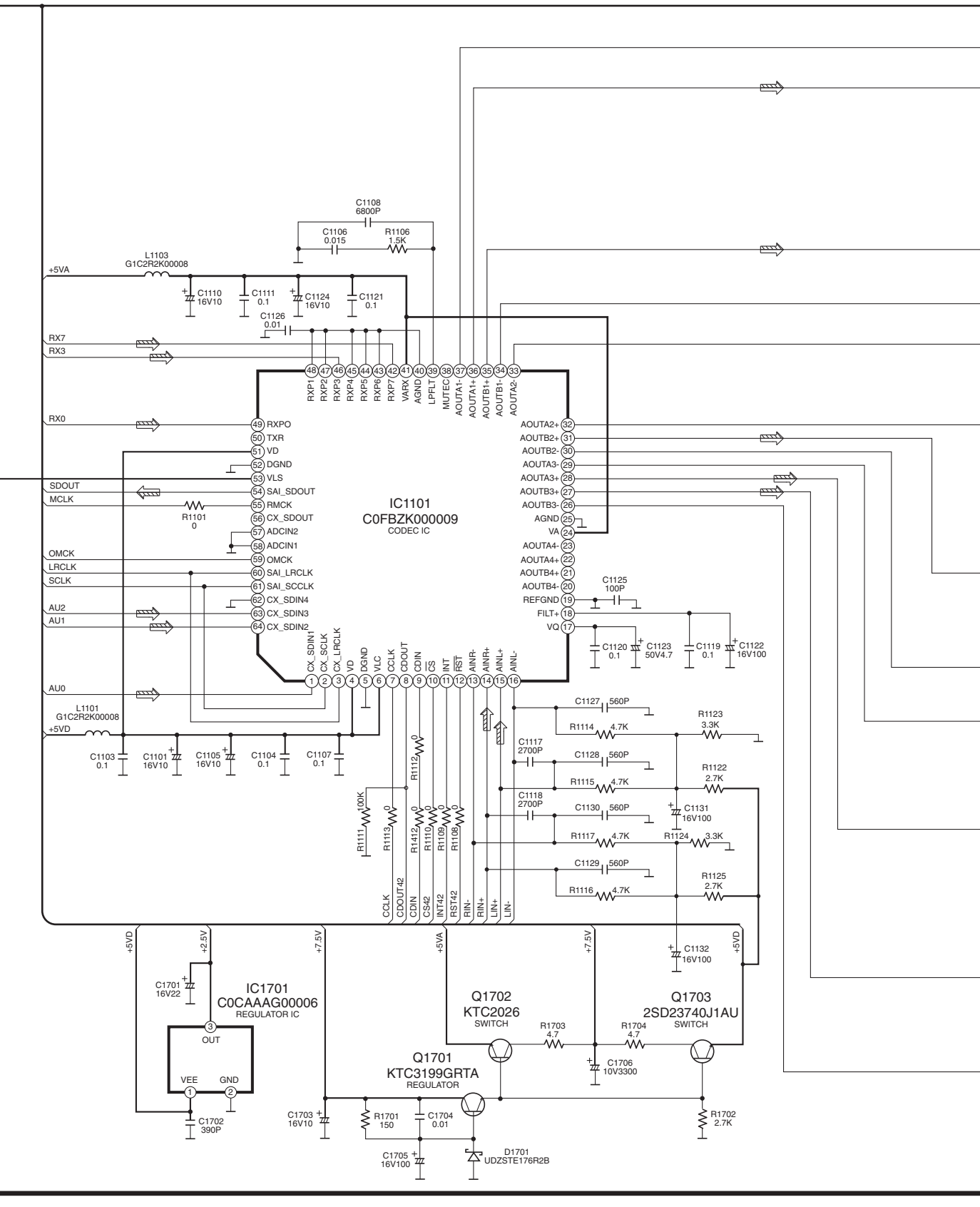


SCHEMATIC DIAGRAM - 2

A

DSP CIRCUIT

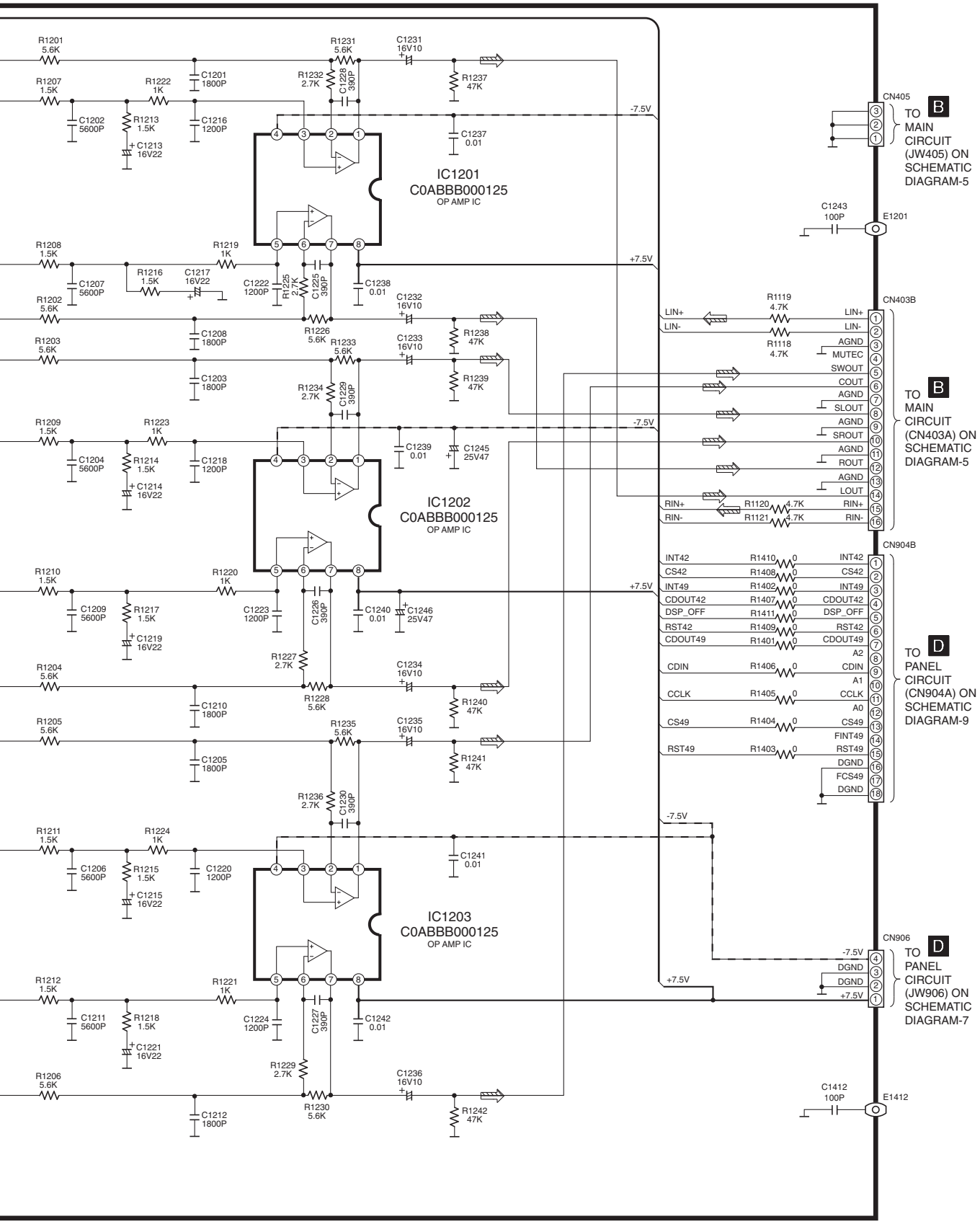
: +B SIGNAL LINE
: MAIN SIGNAL LINE



SCHEMATIC DIAGRAM - 3

A DSP CIRCUIT

: +B SIGNAL LINE
: -B SIGNAL LINE
: MAIN SIGNAL LINE

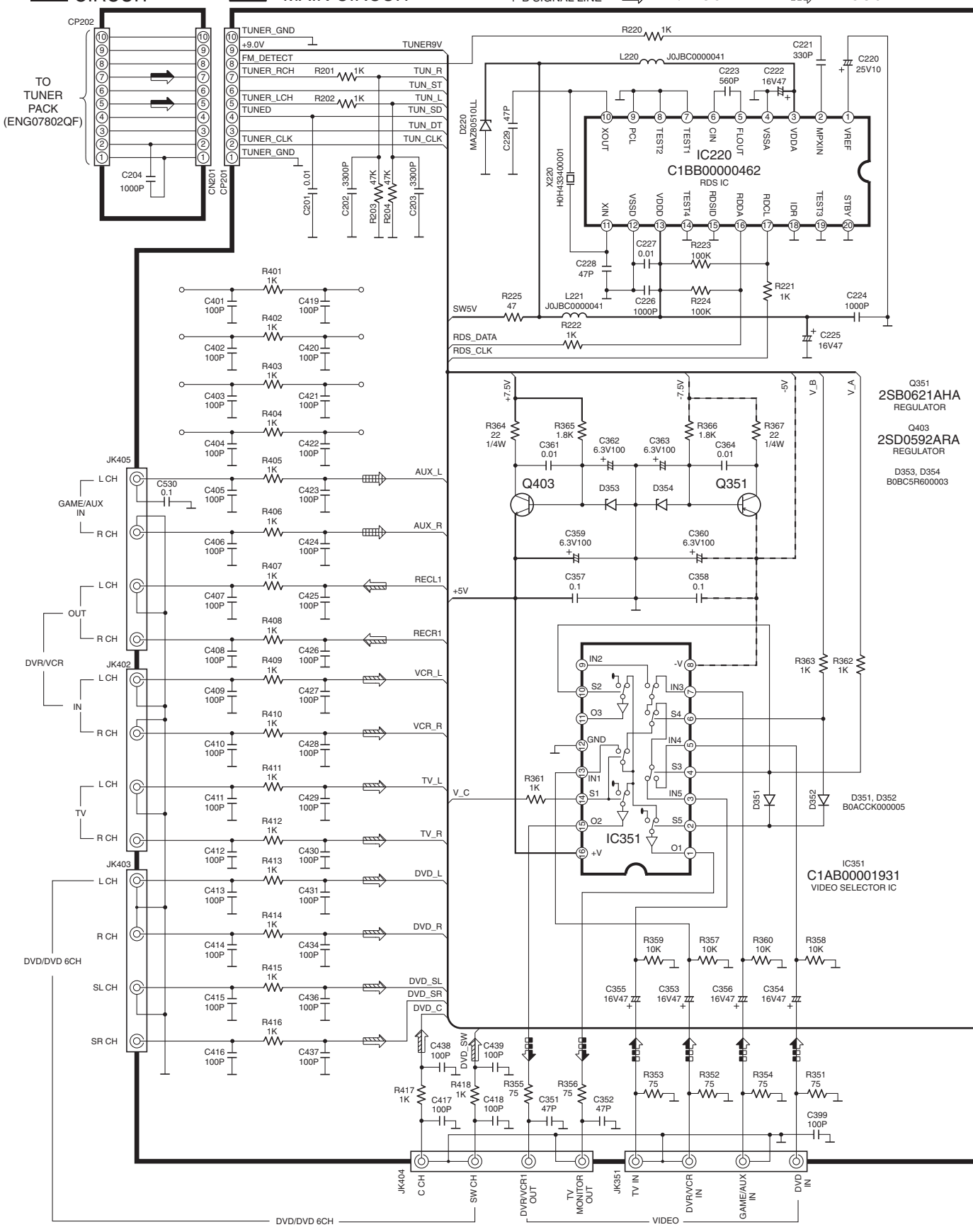


SCHEMATIC DIAGRAM - 4

C TUNER EXTENT CIRCUIT

B MAIN CIRCUIT

: +B SIGNAL LINE
: -B SIGNAL LINE
: MAIN SIGNAL LINE
: FM/AM SIGNAL LINE
: AUXILLARY SIGNAL LINE
: VIDEO SIGNAL LINE

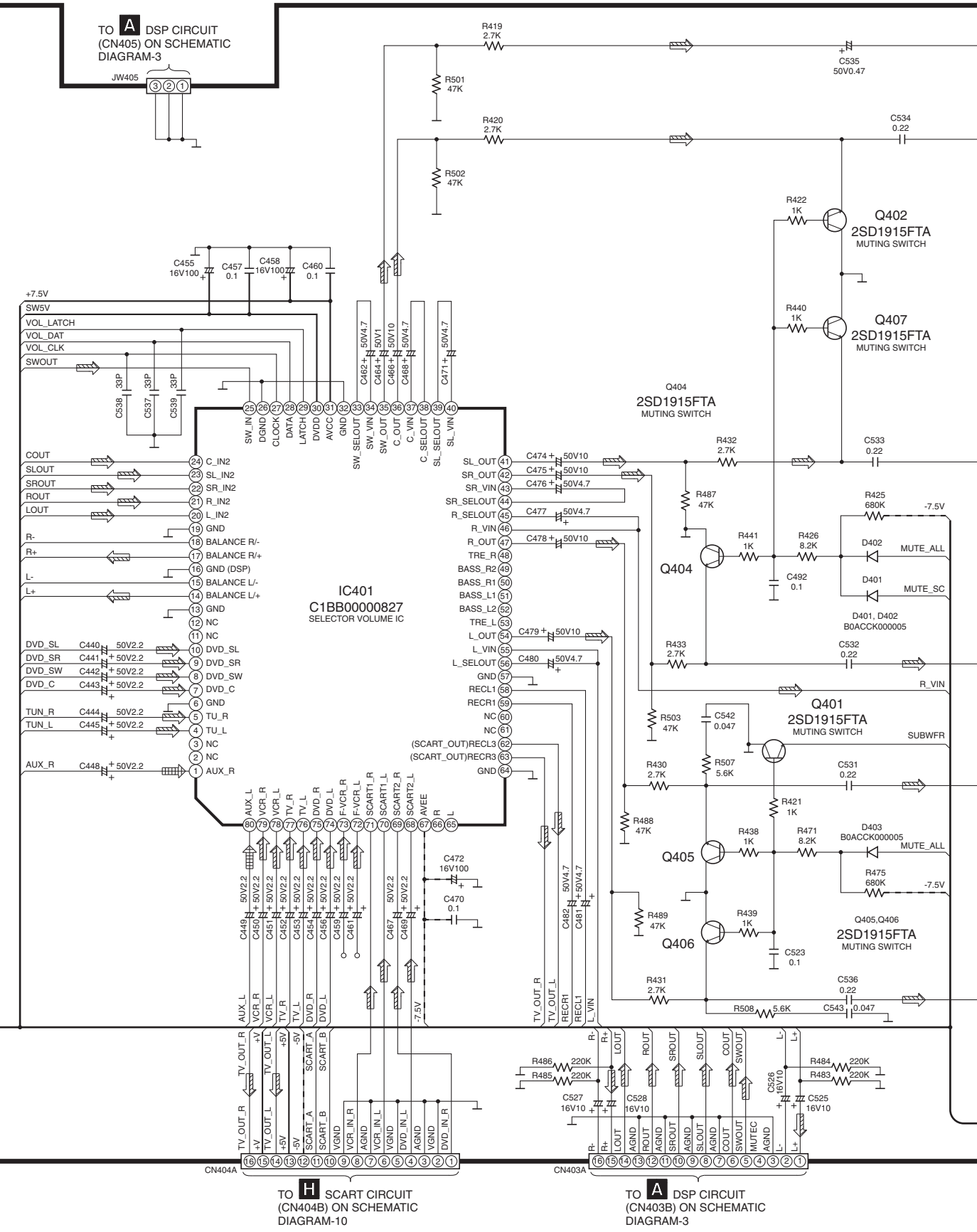


SCHEMATIC DIAGRAM - 5

B

MAIN CIRCUIT

: +B SIGNAL LINE
: -B SIGNAL LINE
: AUXILLARY SIGNAL LINE
: MAIN SIGNAL LINE
: VIDEO SIGNAL LINE
: DVD VIDEO SIGNAL LINE

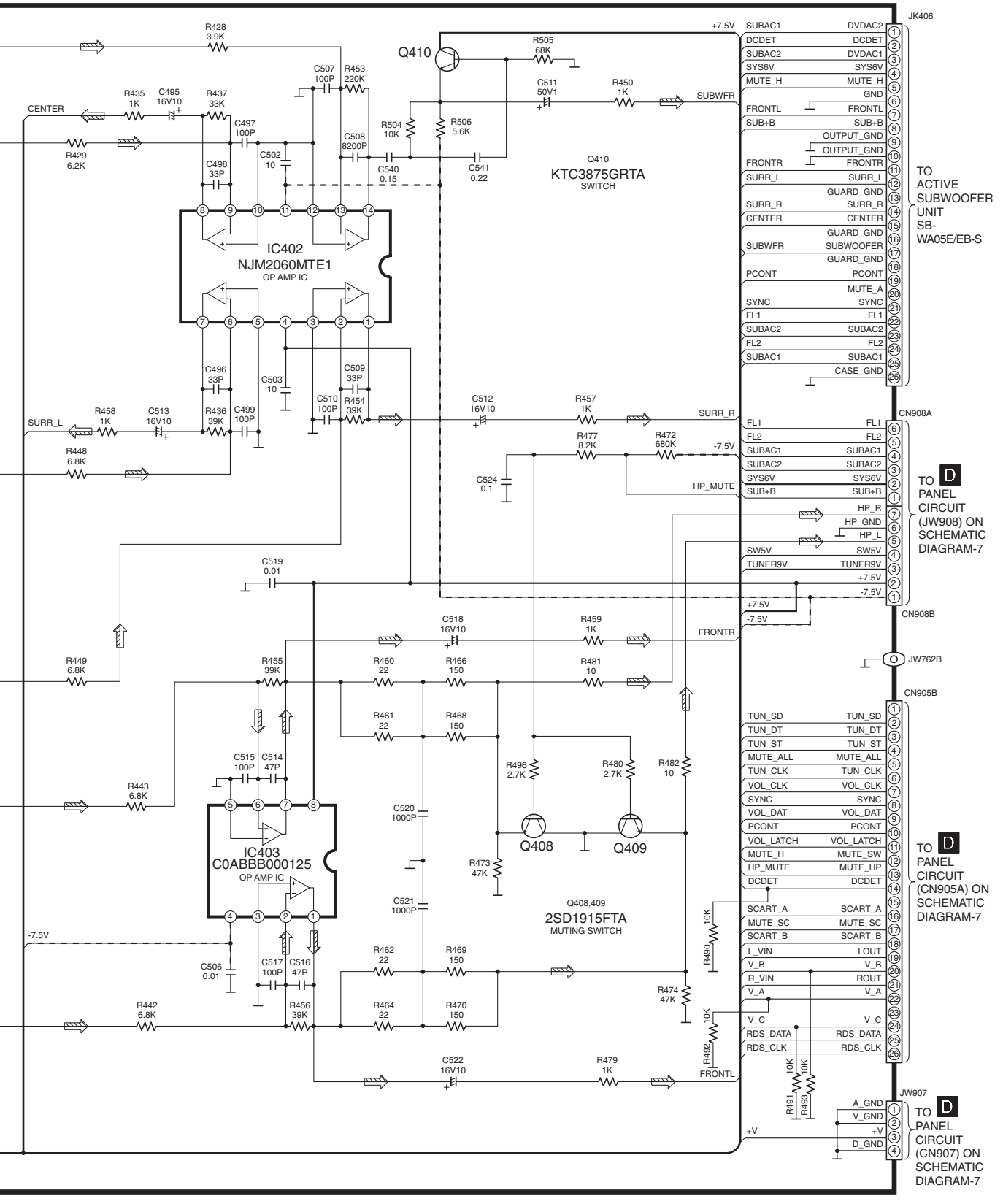


SCHEMATIC DIAGRAM - 6

B

MAIN CIRCUIT

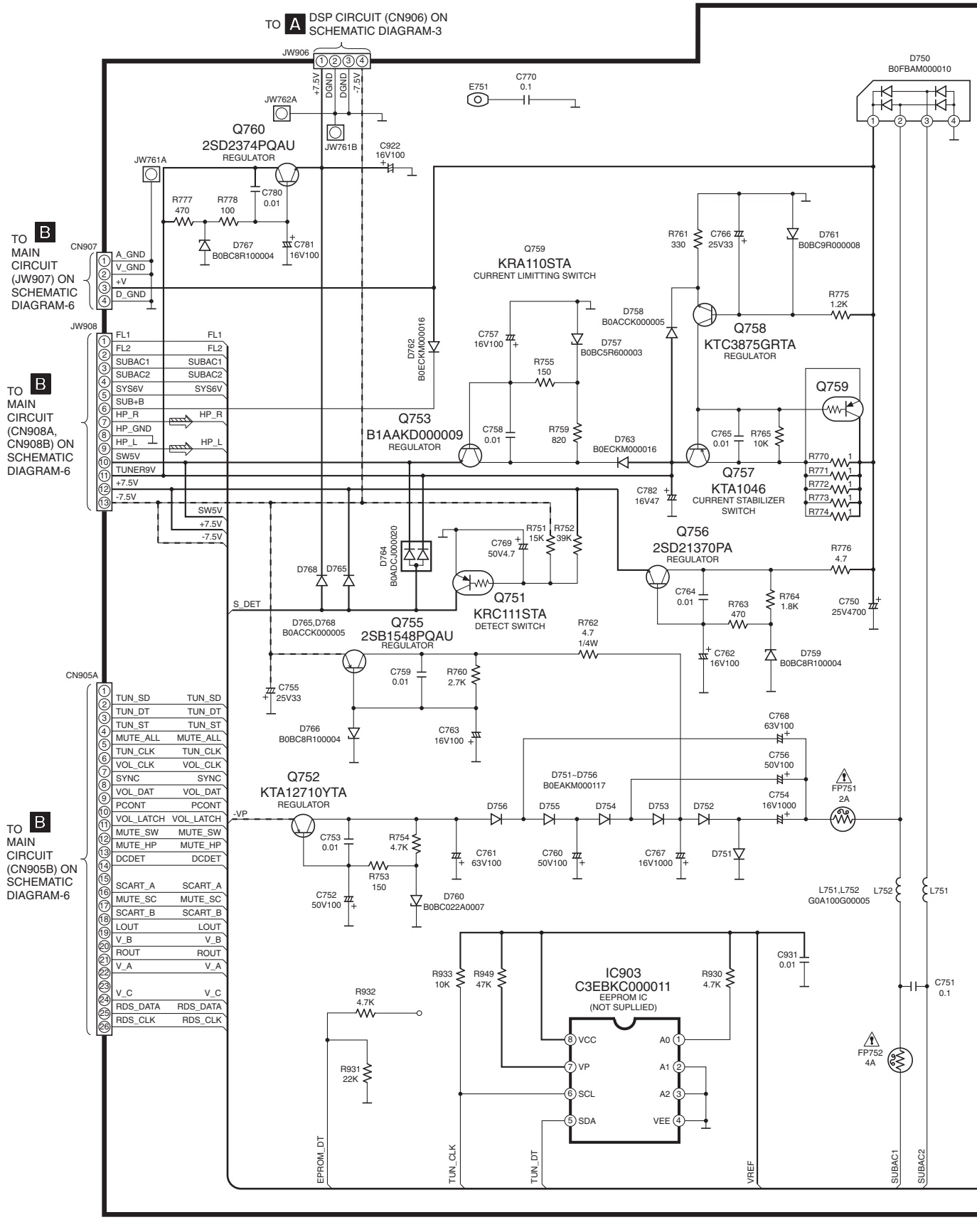
: +B SIGNAL LINE
: -B SIGNAL LINE
: MAIN SIGNAL LINE



SCHEMATIC DIAGRAM - 7

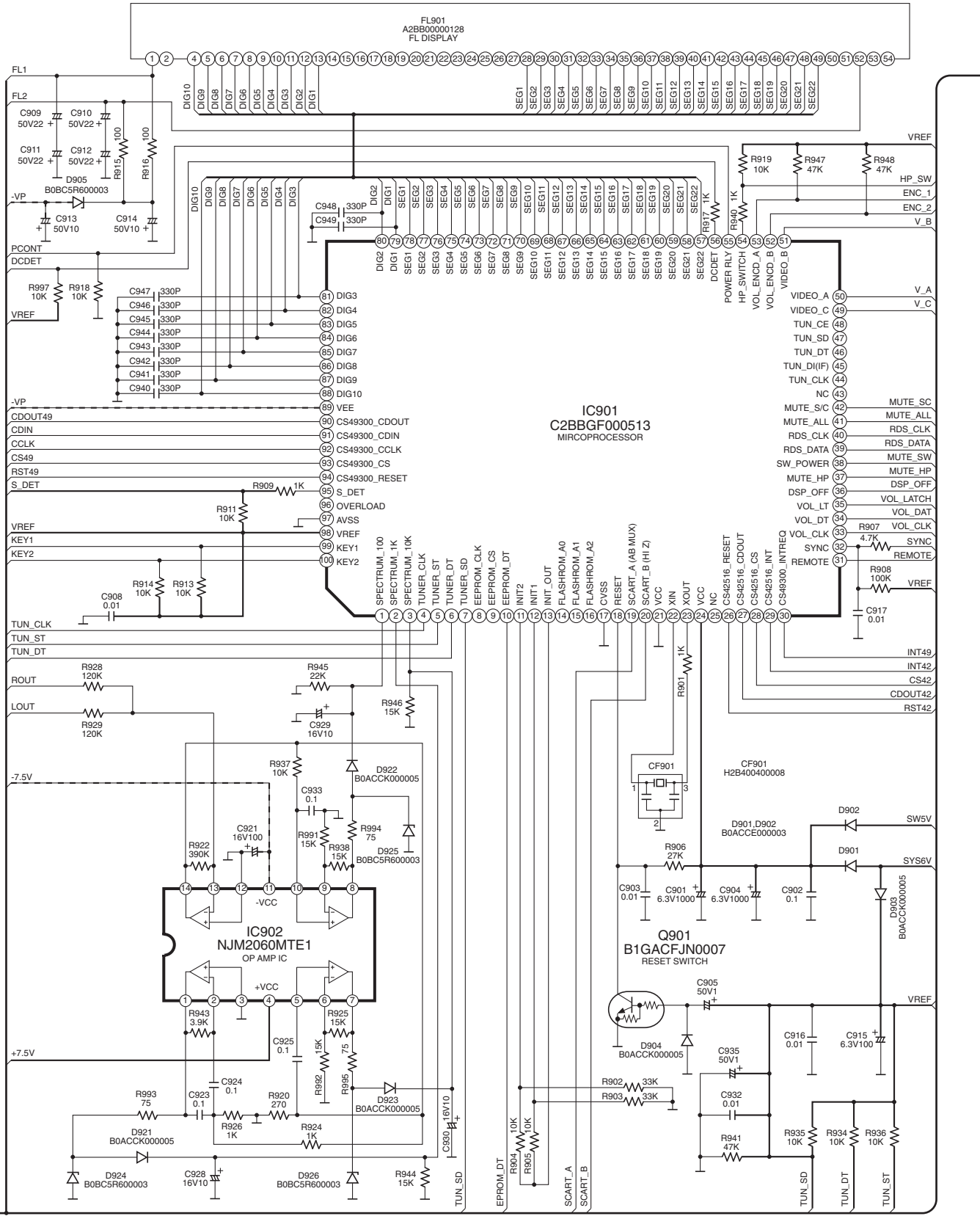
D PANEL CIRCUIT

: +B SIGNAL LINE
: -B SIGNAL LINE
: MAIN SIGNAL LINE



D PANEL CIRCUIT

——— : +B SIGNAL LINE
- - - - : -B SIGNAL LINE

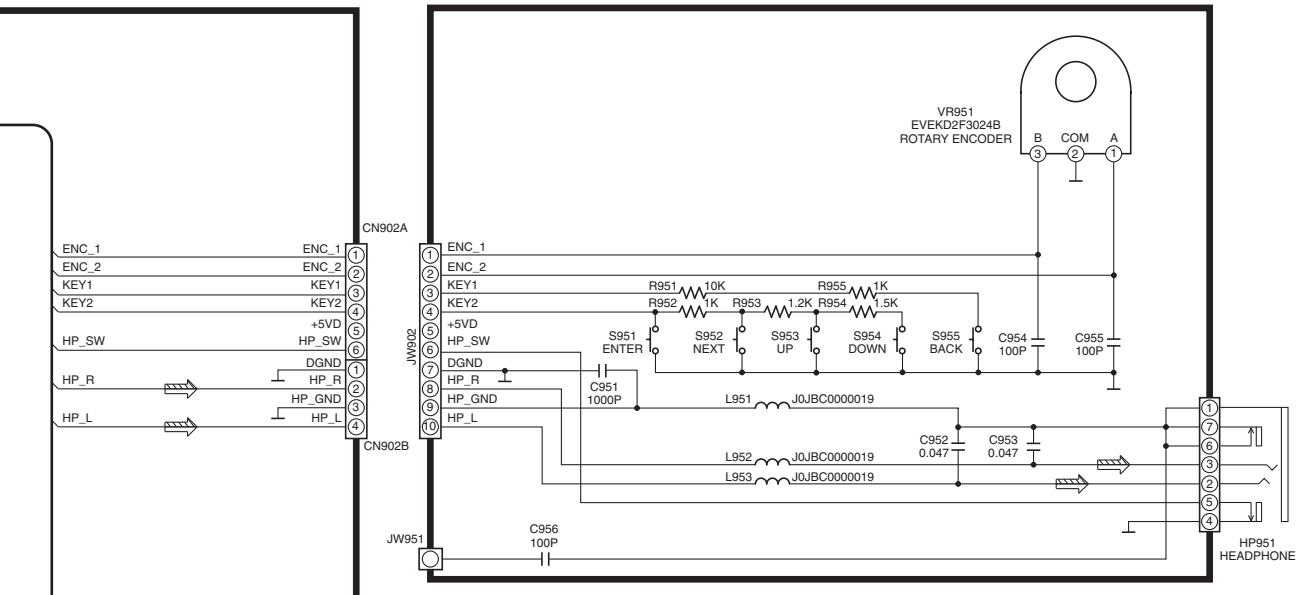


SCHEMATIC DIAGRAM - 9

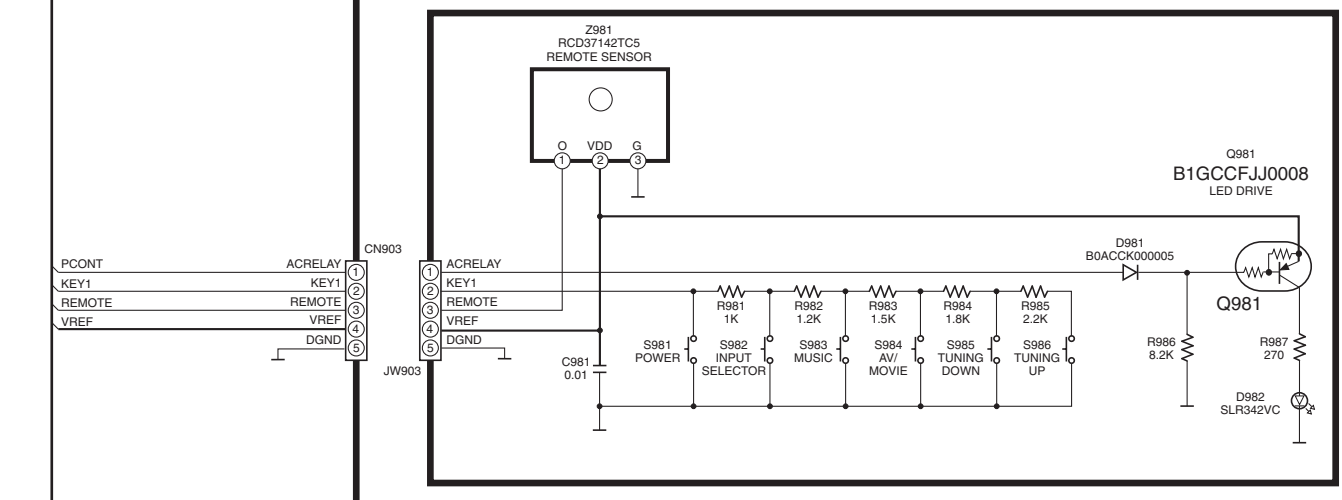
D PANEL CIRCUIT

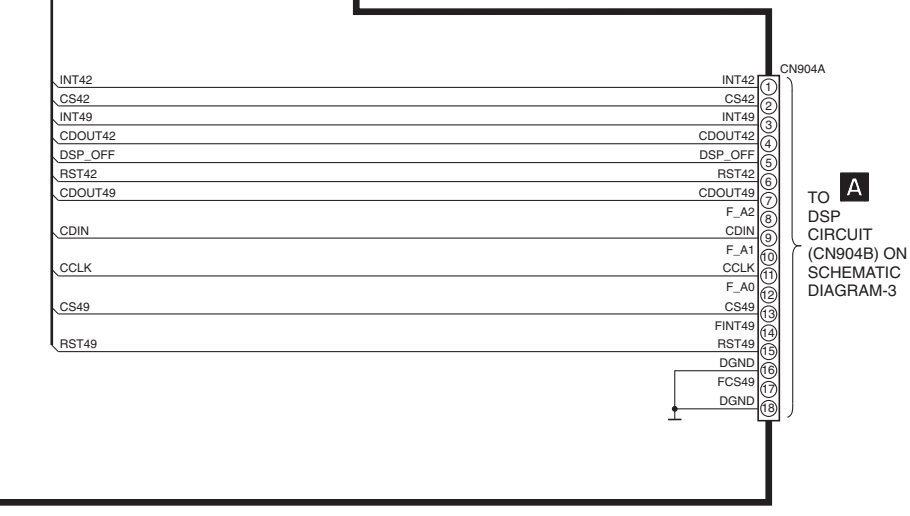
E HEADPHONE CIRCUIT

: MAIN SIGNAL LINE
: +B SIGNAL LINE



F POWER CIRCUIT

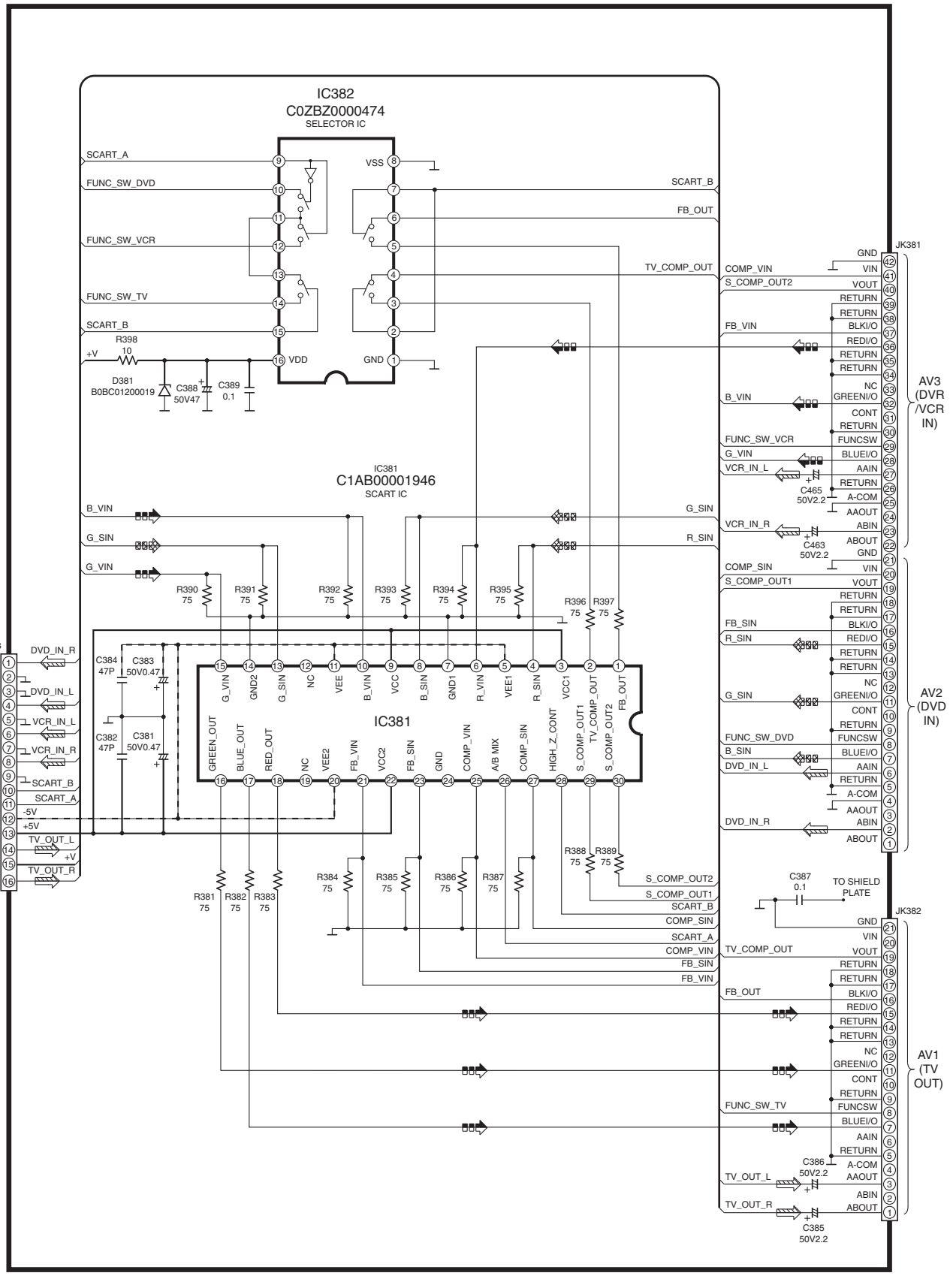


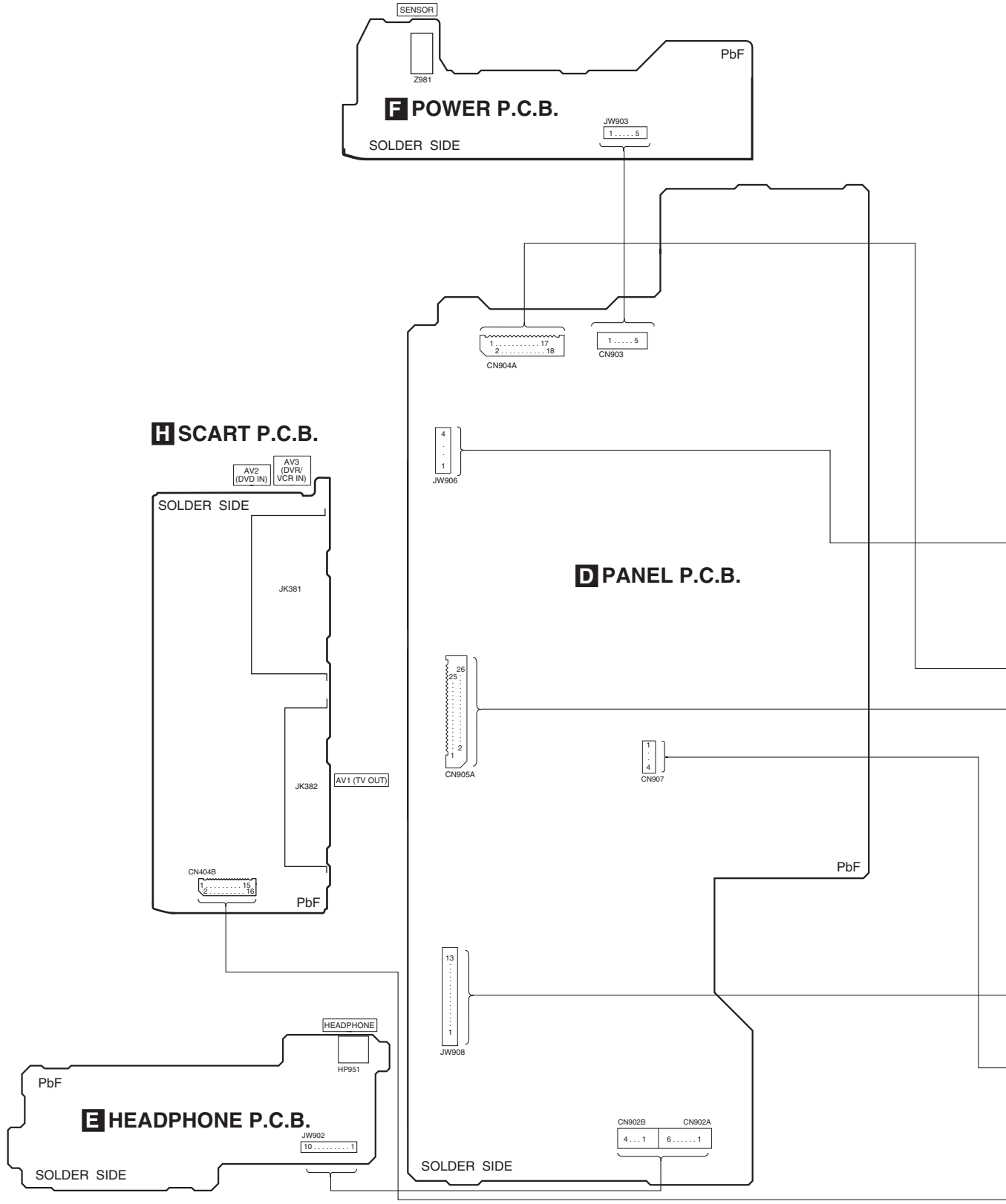


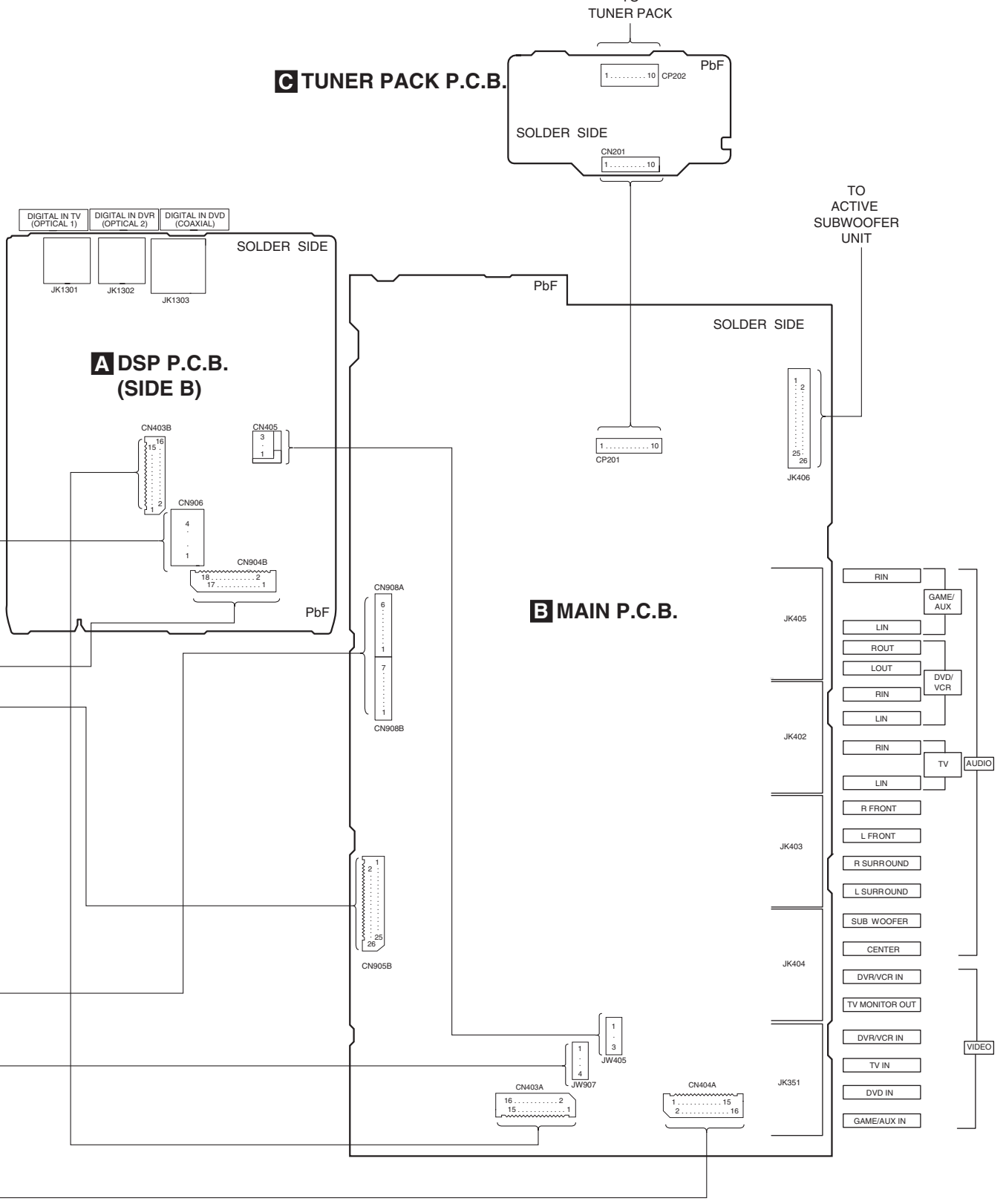
SCHEMATIC DIAGRAM - 10

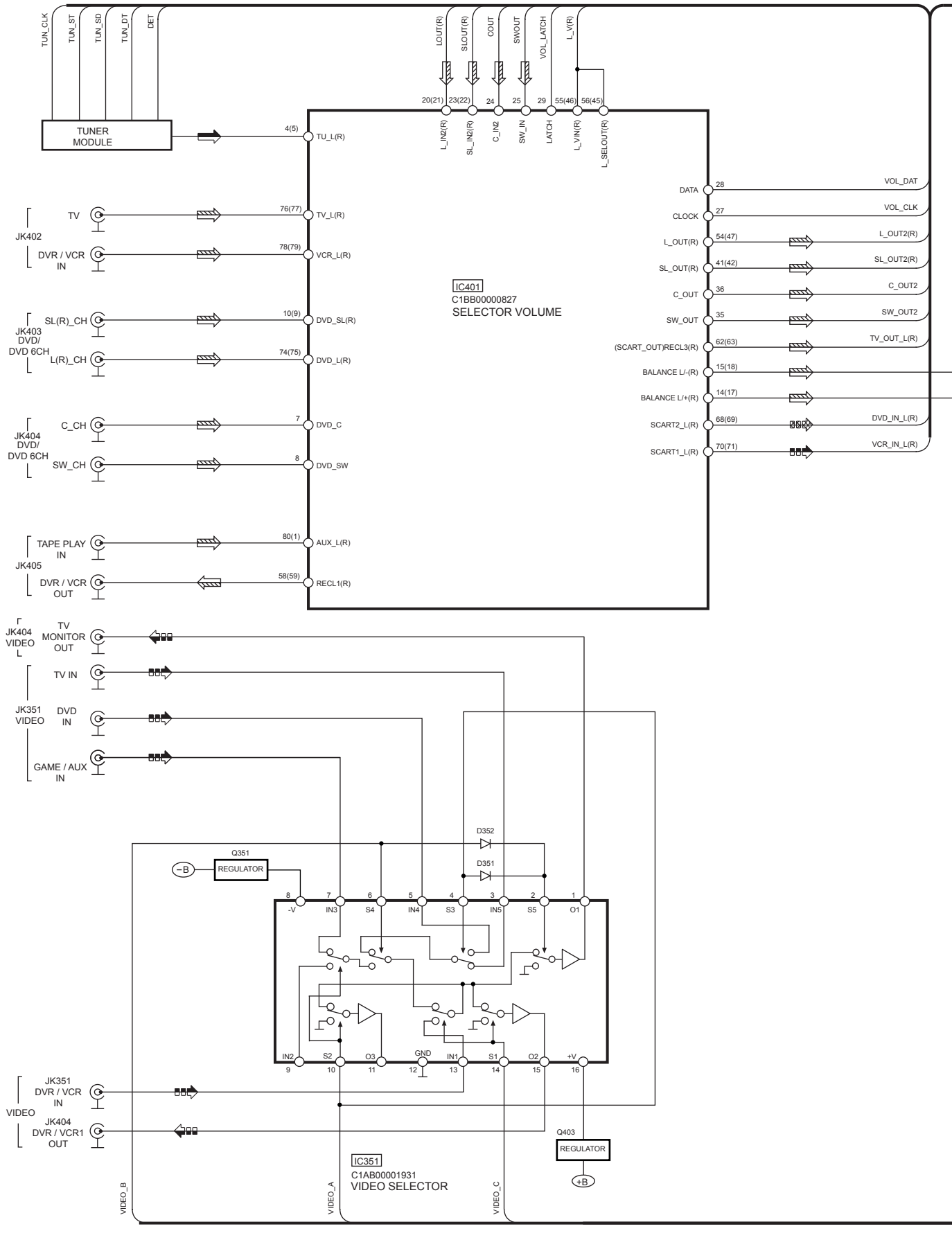
H SCART CIRCUIT

: +B SIGNAL LINE
: -B SIGNAL LINE
: MAIN SIGNAL LINE
: VIDEO SIGNAL LINE
: DVD VIDEO SIGNAL LINE




SENSOR
Z981
PbF
F POWER P.C.B.
SOLDER SIDE
JW903
1 5
1 17
2 18
CN904A
1 5
CN903
H SCART P.C.B.
AV2 (DVD IN)
AV3 (DVR/ VCR IN)
SOLDER SIDE
JK381
JK382
AV1 (TV OUT)
CN404B
1 15
2 16
PbF
4 . . 1
JW906
D PANEL P.C.B.
26
25
2
1
CN905A
1 . . 4
CN907
PbF
13
1
JW908
HEADPHONE
HP951
PbF
E HEADPHONE P.C.B.
JW902
10 1
SOLDER SIDE
CN902B
CN902A
4 . . . 1
6 1
SOLDER SIDE


TO TUNER PACK
C TUNER PACK P.C.B.
PbF
1 . . . . . 10 CP202
SOLDER SIDE
CN201
1 10
TO ACTIVE SUBWOOFER UNIT
DIGITAL IN TV (OPTICAL 1)
DIGITAL IN DVR (OPTICAL 2)
DIGITAL IN DVD (COAXIAL)
SOLDER SIDE
JK1301
JK1302
JK1303
PbF
SOLDER SIDE
A DSP P.C.B. (SIDE B)
CN403B
CN405
CN906
CN904B
CP201
JK406
CN908A
CN908B
B MAIN P.C.B.
JK405
JK402
JK403
JK404
JK351
RIN
GAME/ AUX
LIN
ROUT
LOUT
DVD/ VCR
RIN
LIN
RIN
TV
AUDIO
LIN
R FRONT
L FRONT
R SURROUND
L SURROUND
SUB WOOFER
CENTER
DVR/VCR IN
TV MONITOR OUT
DVR/VCR IN
TV IN
DVD IN
GAME/AUX IN
VIDEO
CN905B
JW405
JW907
CN403A
CN404A
PbF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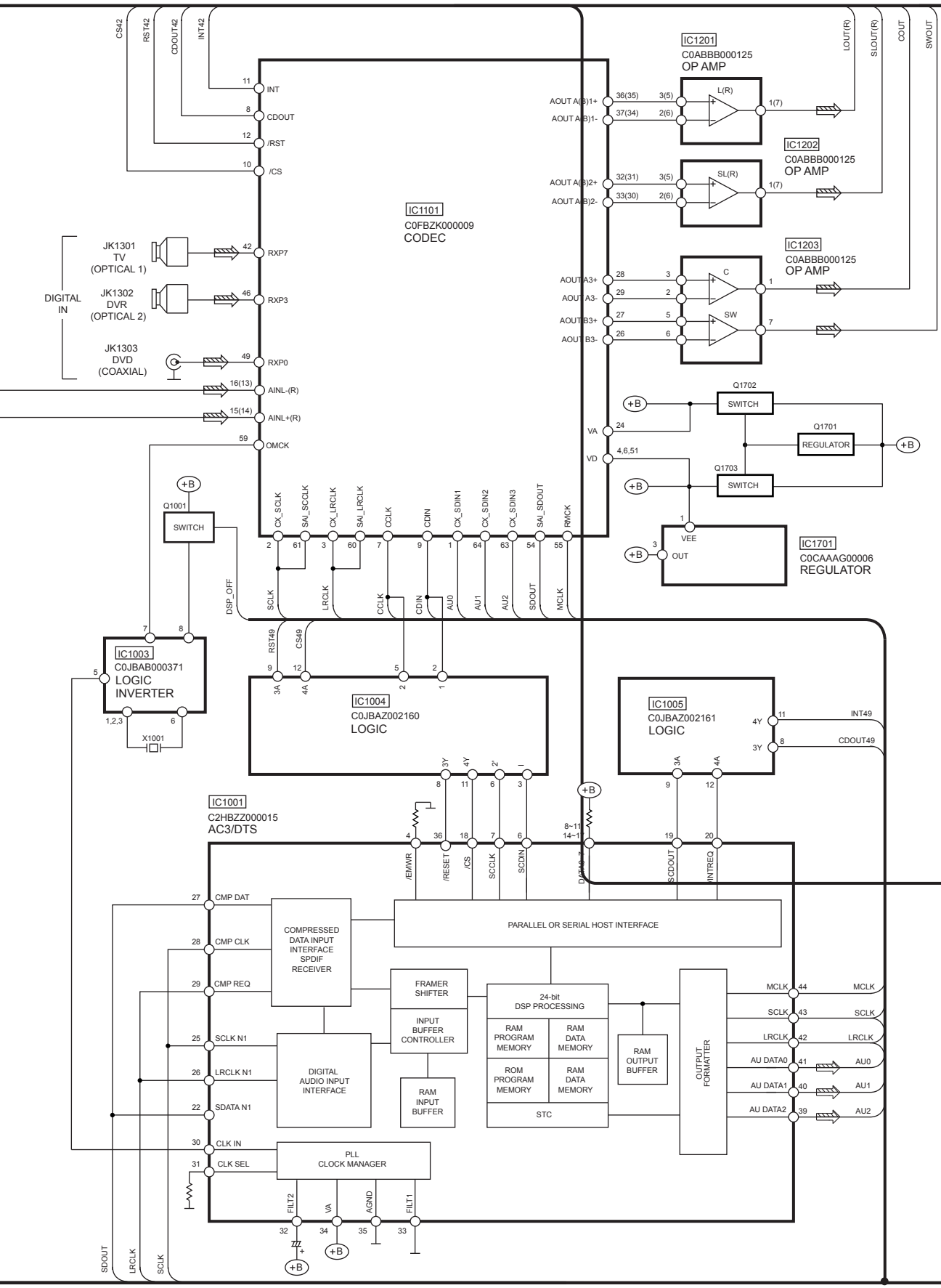
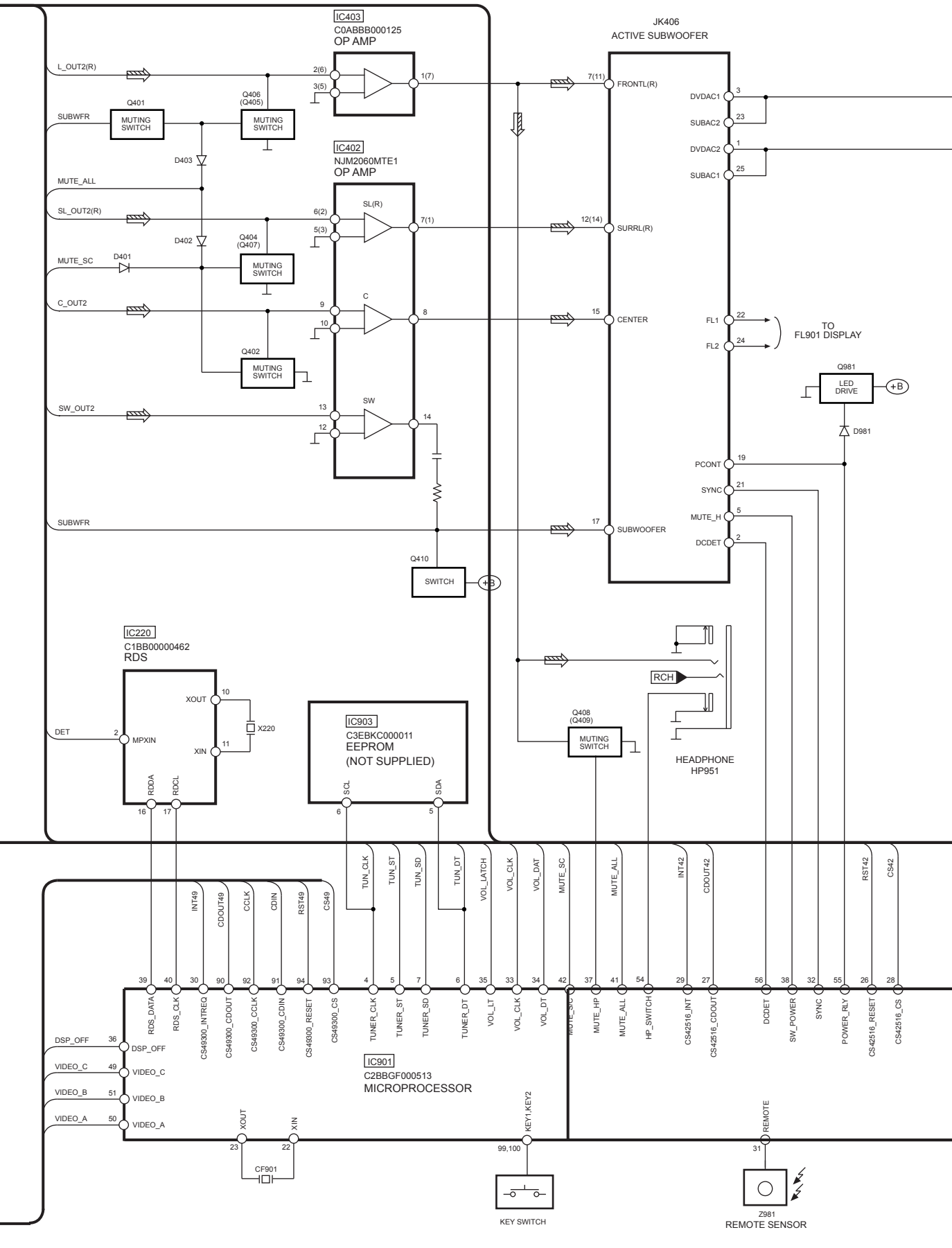
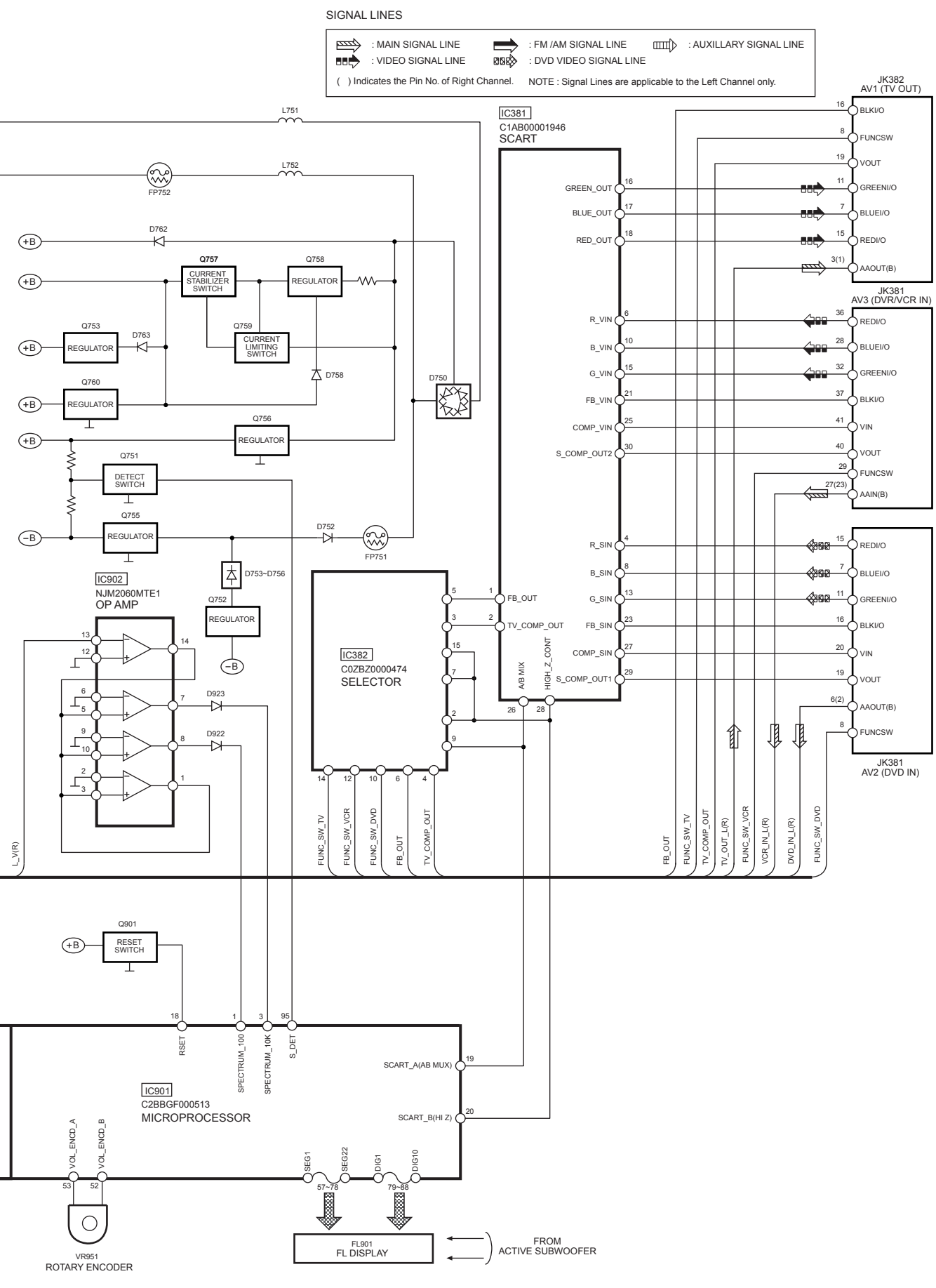
TUN_ST
TUN_SD
TUN_DT
DET
TUNER MODULE
LOUT(R)
SLOUT(R)
COUT
SWOUT
VOL_LATCH
L_V(R)
20(21)
23(22)
24
25
29
55(46)
56(45)
L_IN2(R)
SL_IN2(R)
C_IN2
SW_IN
LATCH
L_VIN(R)
L_SELOUT(R)
4(5)
TU_L(R)
TV
JK402
DVR / VCR IN
76(77)
TV_L(R)
78(79)
VCR_L(R)
SL(R)_CH
JK403 DVD/ DVD 6CH
L(R)_CH
10(9)
DVD_SL(R)
74(75)
DVD_L(R)
C_CH
JK404 DVD/ DVD 6CH
SW_CH
7
DVD_C
8
DVD_SW
TAPE PLAY IN
JK405
DVR / VCR OUT
80(1)
AUX_L(R)
58(59)
RECL1(R)
IC401
C1BB00000827
SELECTOR VOLUME
DATA
CLOCK
L_OUT(R)
SL_OUT(R)
C_OUT
SW_OUT
(SCART_OUT)RECL3(R)
BALANCE L/-(R)
BALANCE L/+(R)
SCART2_L(R)
SCART1_L(R)
28
27
54(47)
41(42)
36
35
62(63)
15(18)
14(17)
68(69)
70(71)
VOL_DAT
VOL_CLK
L_OUT2(R)
SL_OUT2(R)
C_OUT2
SW_OUT2
TV_OUT_L(R)
DVD_IN_L(R)
VCR_IN_L(R)
JK404 VIDEO
TV MONITOR OUT
TV IN
JK351 VIDEO
DVD IN
GAME / AUX IN
D352
D351
Q351
REGULATOR
−B
8 -V
7 IN3
6 S4
5 IN4
4 S3
3 IN5
2 S5
1 O1
IN2 9
S2 10
O3 11
GND 12
IN1 13
S1 14
O2 15
+V 16
JK351 DVR / VCR IN
VIDEO
JK404 DVR / VCR1 OUT
Q403
REGULATOR
+B
IC351
C1AB00001931
VIDEO SELECTOR
VIDEO_B
VIDEO_A
VIDEO_C


CS42
RST42
CDOUT42
INT42
11 INT
8 CDOUT
12 /RST
10 /CS
IC1101
C0FBZK000009
CODEC
DIGITAL IN
JK1301 TV (OPTICAL 1)
JK1302 DVR (OPTICAL 2)
JK1303 DVD (COAXIAL)
42 RXP7
46 RXP3
49 RXP0
16(13) AINL-(R)
15(14) AINL+(R)
59 OMCK
IC1201
C0ABBB000125
OP AMP
L(R)
AOUT A(B)1+
AOUT A(B)1-
IC1202
C0ABBB000125
OP AMP
SL(R)
AOUT A(B)2+
AOUT A(B)2-
IC1203
C0ABBB000125
OP AMP
C
SW
AOUT A3+
AOUT A3-
AOUT B3+
AOUT B3-
LOUT(R)
SLOUT(R)
COUT
SWOUT
Q1702
SWITCH
Q1701
REGULATOR
Q1703
SWITCH
+B
VA
VD
IC1701
C0CAAAG00006
REGULATOR
VEE
OUT
Q1001
SWITCH
DSP_OFF
CX_SCLK
SAI_SCLK
CX_LRCLK
SAI_LRCLK
CCLK
CDIN
CX_SDIN1
CX_SDIN2
CX_SDIN3
SAI_SDOUT
RMCK
SCLK
LRCLK
CCLK
CDIN
AU0
AU1
AU2
SDOUT
MCLK
IC1003
C0JBAB000371
LOGIC INVERTER
X1001
RST49
CS49
IC1004
C0JBAZ002160
LOGIC
IC1005
C0JBAZ002161
LOGIC
INT49
CDOUT49
IC1001
C2HBZZ000015
AC3/DTS
/EMWR
/RESET
/CS
SCCLK
SCDIN
SCDOUT
/INTREQ
PARALLEL OR SERIAL HOST INTERFACE
CMP DAT
CMP CLK
CMP REQ
COMPRESSED DATA INPUT INTERFACE SPDIF RECEIVER
FRAMER SHIFTER
INPUT BUFFER CONTROLLER
24-bit DSP PROCESSING
RAM PROGRAM MEMORY
RAM DATA MEMORY
ROM PROGRAM MEMORY
RAM DATA MEMORY
STC
RAM OUTPUT BUFFER
OUTPUT FORMATTER
SCLK N1
LRCLK N1
SDATA N1
DIGITAL AUDIO INPUT INTERFACE
RAM INPUT BUFFER
CLK IN
CLK SEL
PLL CLOCK MANAGER
FILT2
VA
AGND
FILT1
MCLK
SCLK
LRCLK
AU DATA0
AU DATA1
AU DATA2
AU0
AU1
AU2
SDOUT
LRCLK
SCLK


IC403
C0ABBB000125
OP AMP
L_OUT2(R)
2(6)
3(5)
1(7)
Q401
MUTING SWITCH
Q406 (Q405)
MUTING SWITCH
SUBWFR
D403
IC402
NJM2060MTE1
OP AMP
MUTE_ALL
SL_OUT2(R)
6(2)
5(3)
SL(R)
7(1)
D402
Q404 (Q407)
MUTING SWITCH
MUTE_SC
D401
C_OUT2
9
10
C
8
Q402
MUTING SWITCH
SW_OUT2
13
12
SW
14
SUBWFR
Q410
SWITCH
+B
JK406
ACTIVE SUBWOOFER
7(11)
FRONTL(R)
12(14)
SURRL(R)
15
CENTER
17
SUBWOOFER
DVDAC1
3
SUBAC2
23
DVDAC2
1
SUBAC1
25
FL1
22
FL2
24
TO FL901 DISPLAY
Q981
LED DRIVE
+B
D981
PCONT
19
SYNC
21
MUTE_H
5
DCDET
2
IC220
C1BB00000462
RDS
XOUT
10
X220
DET
2
MPXIN
XIN
11
RDDA
RDCL
16
17
IC903
C3EBKC000011
EEPROM
(NOT SUPPLIED)
SCL
SDA
6
5
RCH
Q408 (Q409)
MUTING SWITCH
HEADPHONE
HP951
TUN_CLK
TUN_ST
TUN_SD
TUN_DT
VOL_LATCH
VOL_CLK
VOL_DAT
MUTE_SC
MUTE_HP
MUTE_ALL
INT42
CDOUT42
RST42
CS42
INT49
CDOUT49
CCLK
CDIN
RST49
CS49
39
40
30
90
92
91
94
93
4
5
7
6
35
33
34
42
37
41
54
29
27
56
38
32
55
26
28
RDS_DATA
RDS_CLK
CS49300_INTREQ
CS49300_CDOUT
CS49300_CCLK
CS49300_CDIN
CS49300_RESET
CS49300_CS
TUNER_CLK
TUNER_ST
TUNER_SD
TUNER_DT
VOL_LT
VOL_CLK
VOL_DT
MUTE_SC
MUTE_HP
MUTE_ALL
HP_SWITCH
CS42516_INT
CS42516_CDOUT
DCDET
SW_POWER
SYNC
POWER_RLY
CS42516_RESET
CS42516_CS
DSP_OFF
36
VIDEO_C
49
VIDEO_B
51
VIDEO_A
50
DSP_OFF
VIDEO_C
VIDEO_B
VIDEO_A
IC901
C2BBGF000513
MICROPROCESSOR
XOUT
XIN
23
22
CF901
KEY1,KEY2
99,100
KEY SWITCH
REMOTE
31
Z981
REMOTE SENSOR


SIGNAL LINES
: MAIN SIGNAL LINE
: VIDEO SIGNAL LINE
: FM /AM SIGNAL LINE
: DVD VIDEO SIGNAL LINE
: AUXILLARY SIGNAL LINE
( ) Indicates the Pin No. of Right Channel.
NOTE : Signal Lines are applicable to the Left Channel only.
JK382
AV1 (TV OUT)
JK381
AV3 (DVR/VCR IN)
JK381
AV2 (DVD IN)
IC381
C1AB00001946
SCART
IC382
C0ZBZ0000474
SELECTOR
IC902
NJM2060MTE1
OP AMP
IC901
C2BBGF000513
MICROPROCESSOR
L751
L752
FP752
FP751
D762
D763
D758
D750
D752
D753~D756
D923
D922
Q757
CURRENT STABILIZER SWITCH
Q758
REGULATOR
Q753
REGULATOR
Q759
CURRENT LIMITING SWITCH
Q760
REGULATOR
Q756
REGULATOR
Q751
DETECT SWITCH
Q755
REGULATOR
Q752
REGULATOR
Q901
RESET SWITCH
+B
−B
GREEN_OUT
BLUE_OUT
RED_OUT
BLKI/O
FUNCSW
VOUT
GREENI/O
BLUEI/O
REDI/O
AAOUT(B)
R_VIN
B_VIN
G_VIN
FB_VIN
COMP_VIN
S_COMP_OUT2
VIN
AAIN(B)
R_SIN
B_SIN
G_SIN
FB_SIN
COMP_SIN
S_COMP_OUT1
AAOUT(B)
FB_OUT
TV_COMP_OUT
A/B MIX
HIGH_Z_CONT
FUNC_SW_TV
FUNC_SW_VCR
FUNC_SW_DVD
TV_COMP_OUT
TV_OUT_L(R)
VCR_IN_L(R)
DVD_IN_L(R)
L_V(R)
RSET
SPECTRUM_100
SPECTRUM_10K
S_DET
SCART_A(AB MUX)
SCART_B(HI Z)
VOL_ENCD_A
VOL_ENCD_B
SEG1
SEG22
DIG1
DIG10
57~78
79~88
VR951
ROTARY ENCODER
FL901
FL DISPLAY
FROM
ACTIVE SUBWOOFER

Control guide

Main unit

[SFC, MUSIC, AV/MOVIE]
For selecting SFC modes.

[INPUT SELECTOR]
For selecting input.

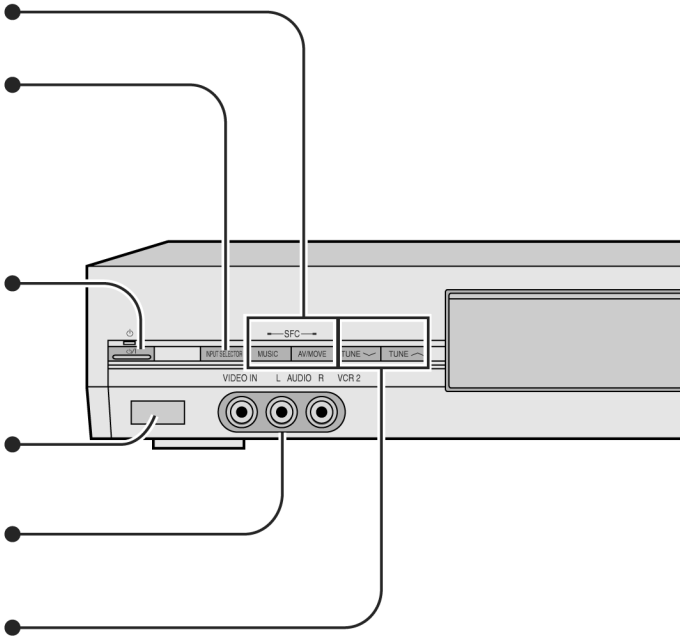
Standby indicator [⏻]
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.

Standby/on switch [⏻/I]
Press to switch the unit from on to standby mode or vice versa.
In standby mode, the unit is still consuming a small amount of power.

Remote control signal sensor

SC-HT07
[VCR 2]
Connect equipment like video cameras.

[TUNE∨, TUNE∧]
For tuning the radio and selecting preset stations.



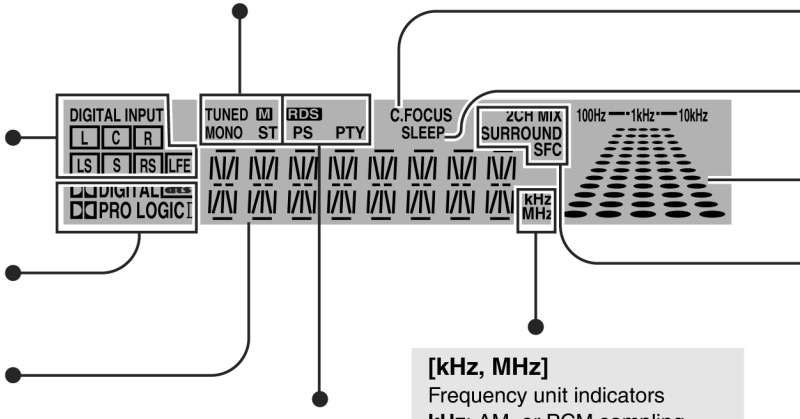
Display

[DIGITAL INPUT]
Program format indicators
Show the channels contained in the digital input signal.
They do not light when input is analog.
L: Front left channel
C: Center channel
R: Front right channel
LS: Surround left channel
S: If the surround channel is monaural
RS: Surround right channel
LFE (Low Frequency Effects): Deep-bass effect

[DIGITAL, dts, PRO LOGIC II]
Light to indicate the source's input signal and decoding format used.

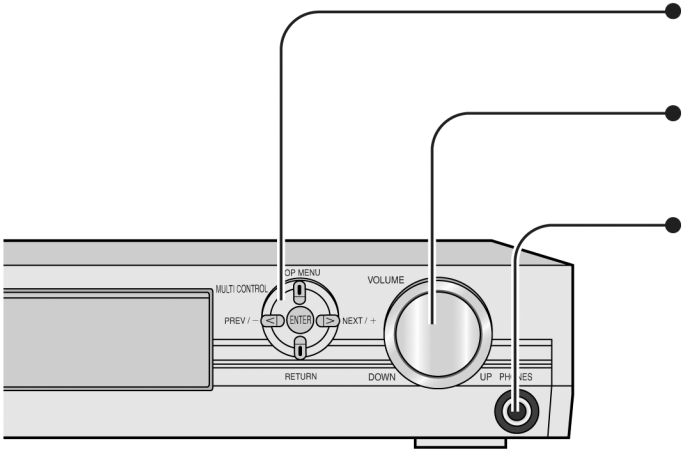
General display
Shows the input mode, radio frequency, and other general information.

[TUNED, M, MONO, ST]
Radio indicators
TUNED: A station is tuned.
M: Flashes or lights during presetting.
MONO: You have switched to monaural mode with [FM MODE] to improve reception.
ST: A stereo FM broadcast is tuned.



[kHz, MHz]
Frequency unit indicators
kHz: AM, or PCM sampling frequency
MHz: FM

[RDS, PS, PTY]
(For continental Europe and the United Kingdom)
Shows the current RDS display mode.



[MULTI CONTROL]
For presetting radio stations and various other settings.
(➡ page 17)

[VOLUME]
Volume control.

[PHONES]
Headphone jack
Plug type: 3.5 mm stereo
- Sound does not come from the speakers if you connect headphones.
- Avoid listening for prolonged periods of time to prevent hearing damage.

Manufactured under license from Dolby Laboratories.
"Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

[C.FOCUS]
Appears when you are using Center Focus

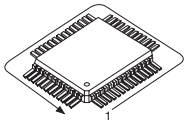
[SLEEP]
Sleep timer indicator.

Spectrum analyzer display

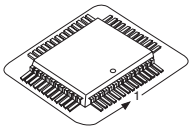
[2CH MIX, SURROUND, SFC]
2CH MIX: Appears when you are playing a multi-channel source in 2CH MIX mode
SURROUND: Appears when you are playing through multiple channels
SFC: Appears when you are using an SFC mode

For your reference
- If you have used scart connections, depending on the features of your television and other equipment, television input may automatically switch input when you start play.
- **When playing sources connected to the DVD IN RCA terminal**
  The picture remains on the screen even if you select an audio source.

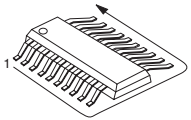
C2BBGF000513 (100p)
C1BB00000827 (80p)
C0FBZK000009 (64p)



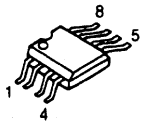
C2HBZZ000015 (44p)



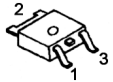
C0JBAB000371 (8p)
C0ABBB000125 (8p)



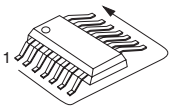
C3EBKC000011



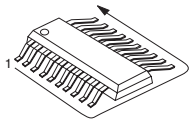
C0CAAAG00006



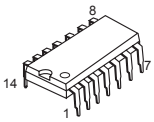
C1AB00001931 (16p)
C1AB00001946 (30P)



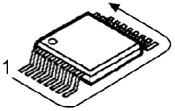
C1BB00000462 (20P)



NJM2060MTE1



C0JBAZ002160 (14p)
C0JBAZ002161 (14p)
C0ZBZ0000474 (16p)



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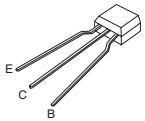

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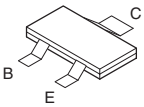

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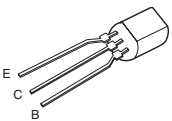

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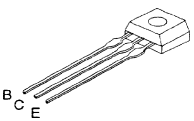

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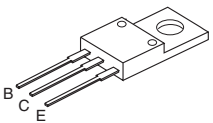
2SD2374PQAU
2SD23740J1AU



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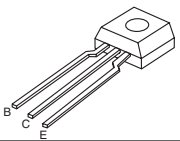

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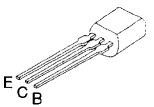
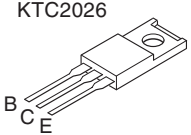
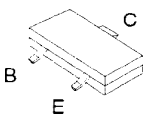


KTA1046
KTC2026



KRA110STA
KTC3875GRTA
KRC111STA



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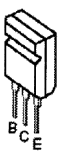

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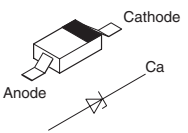

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B0BC8R100004
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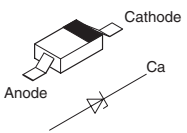

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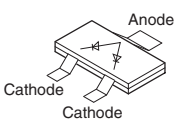

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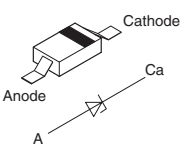

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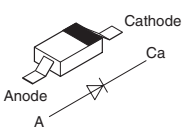

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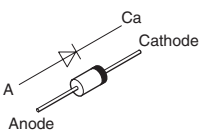

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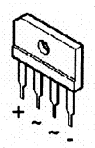

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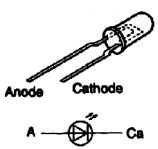
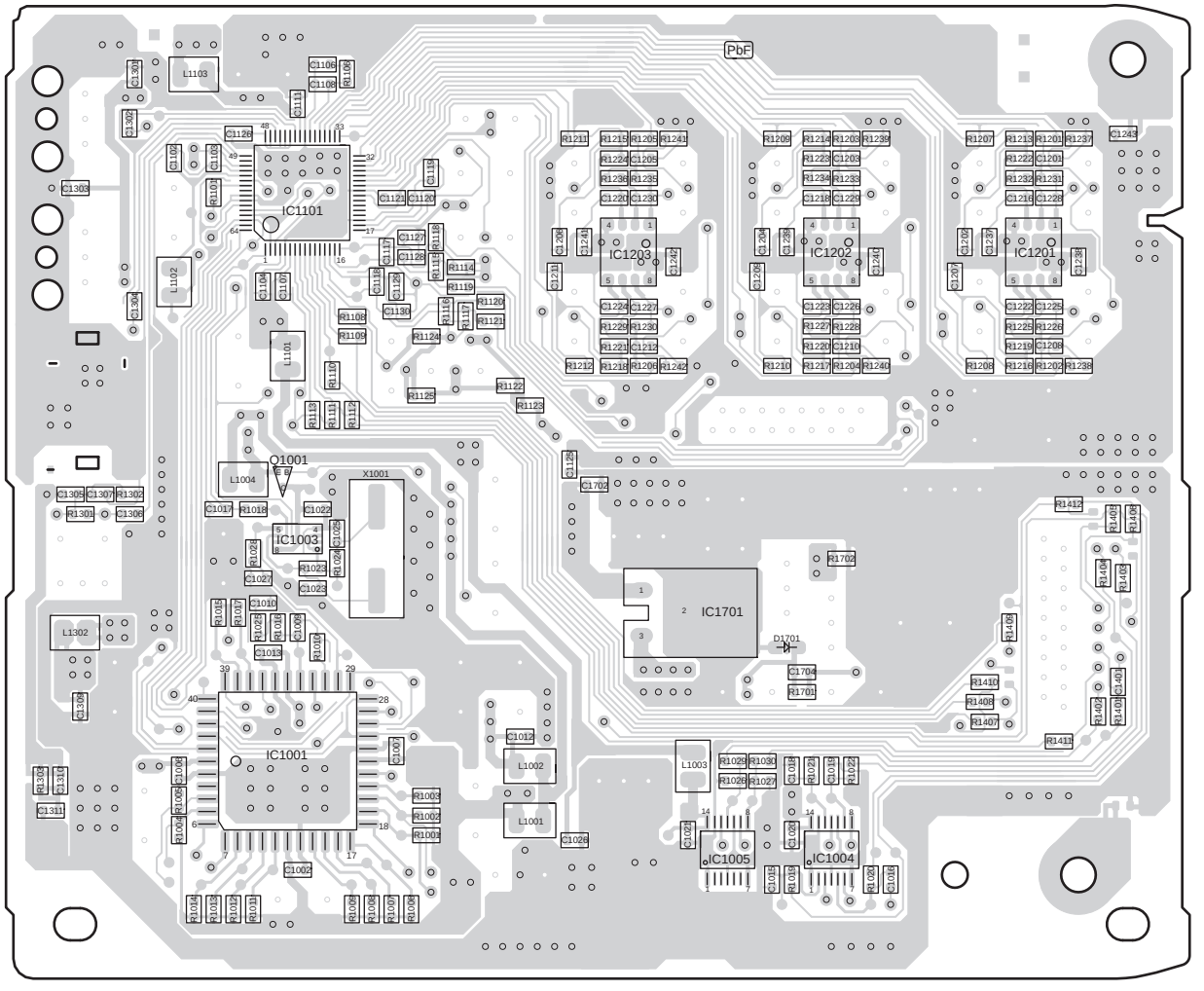


A DSP P.C.B (REPV0012A-T)



(SIDE A)

A B C D E F G

1 2 3 4 5 6 7 8 9

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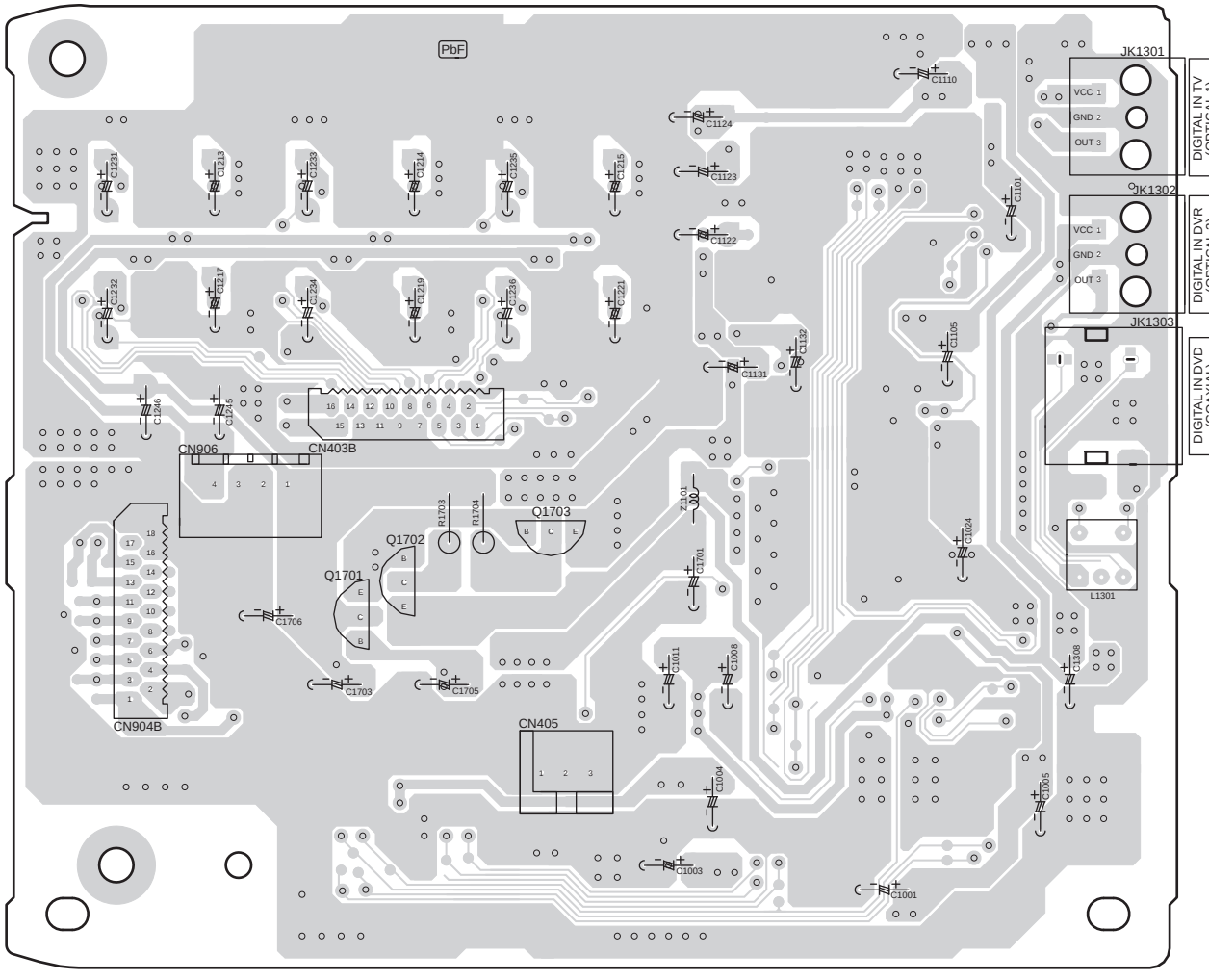
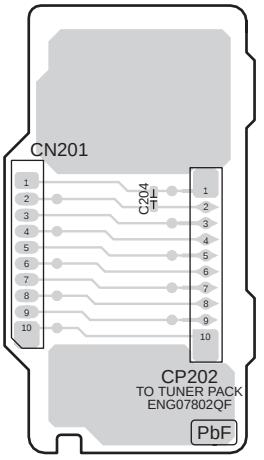


(SIDE B)

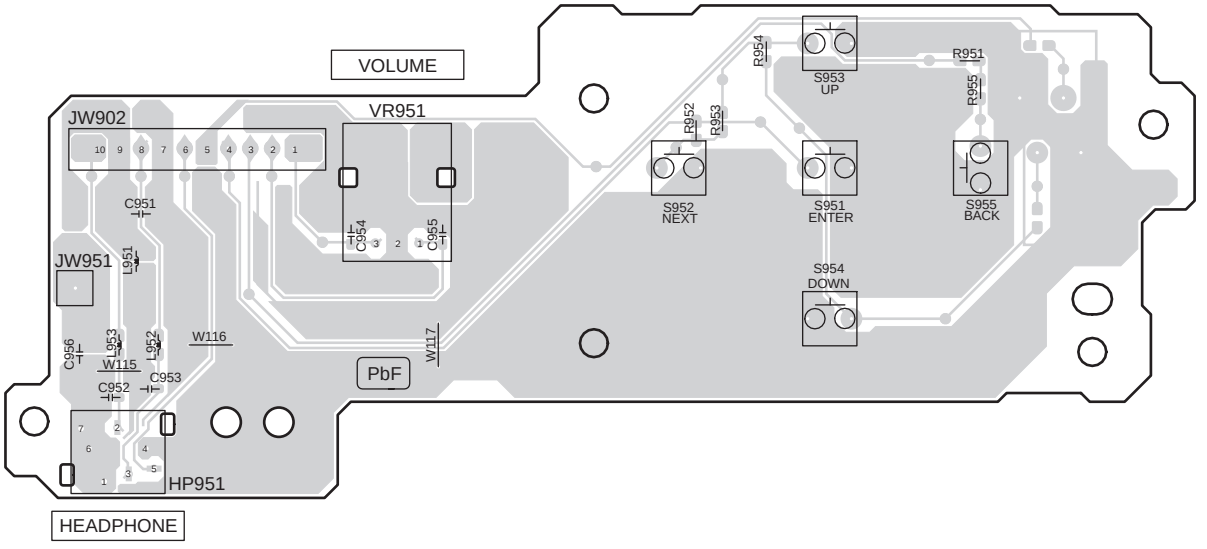
A B C D E F G

1 2 3 4 5 6 7 8 9

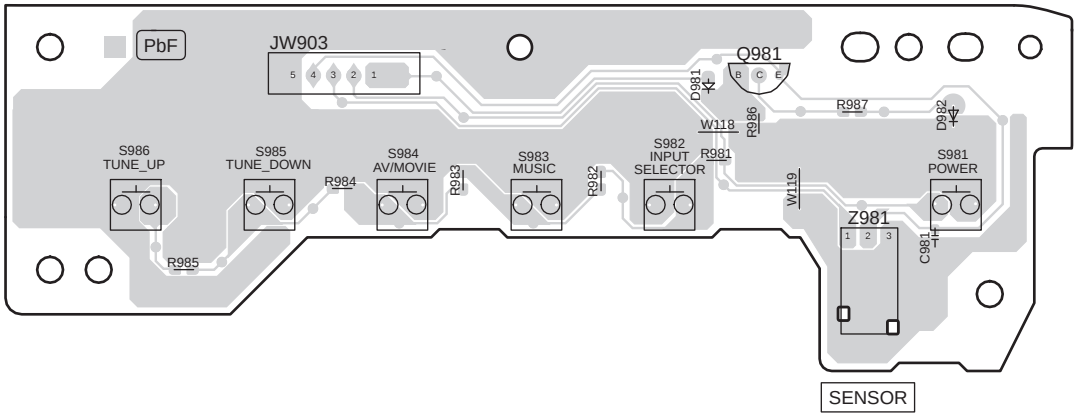
C TUNER EXTENT P.C.B (REPV0011B-M)



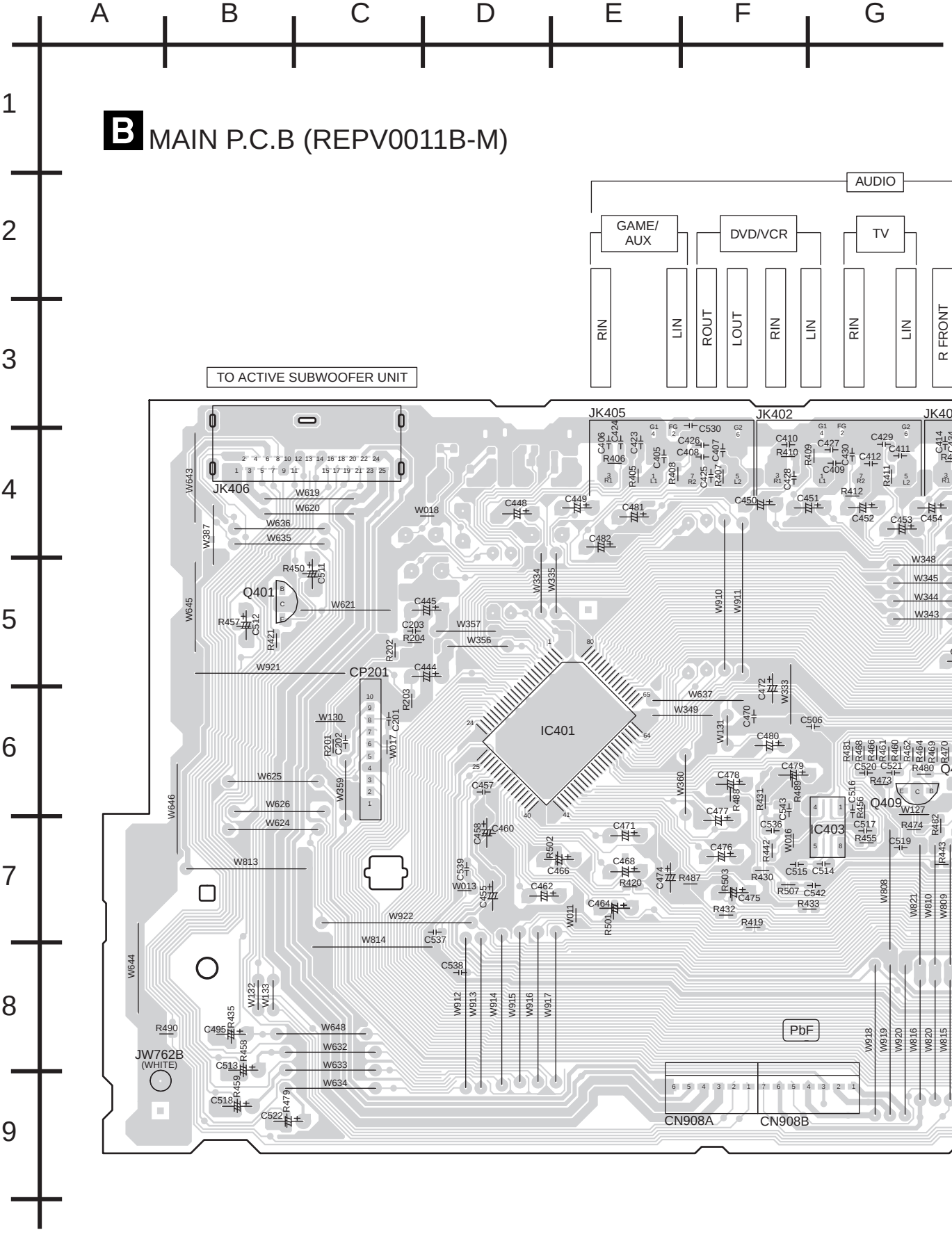
E HEADPHONE P.C.B (REPV0011B-M)

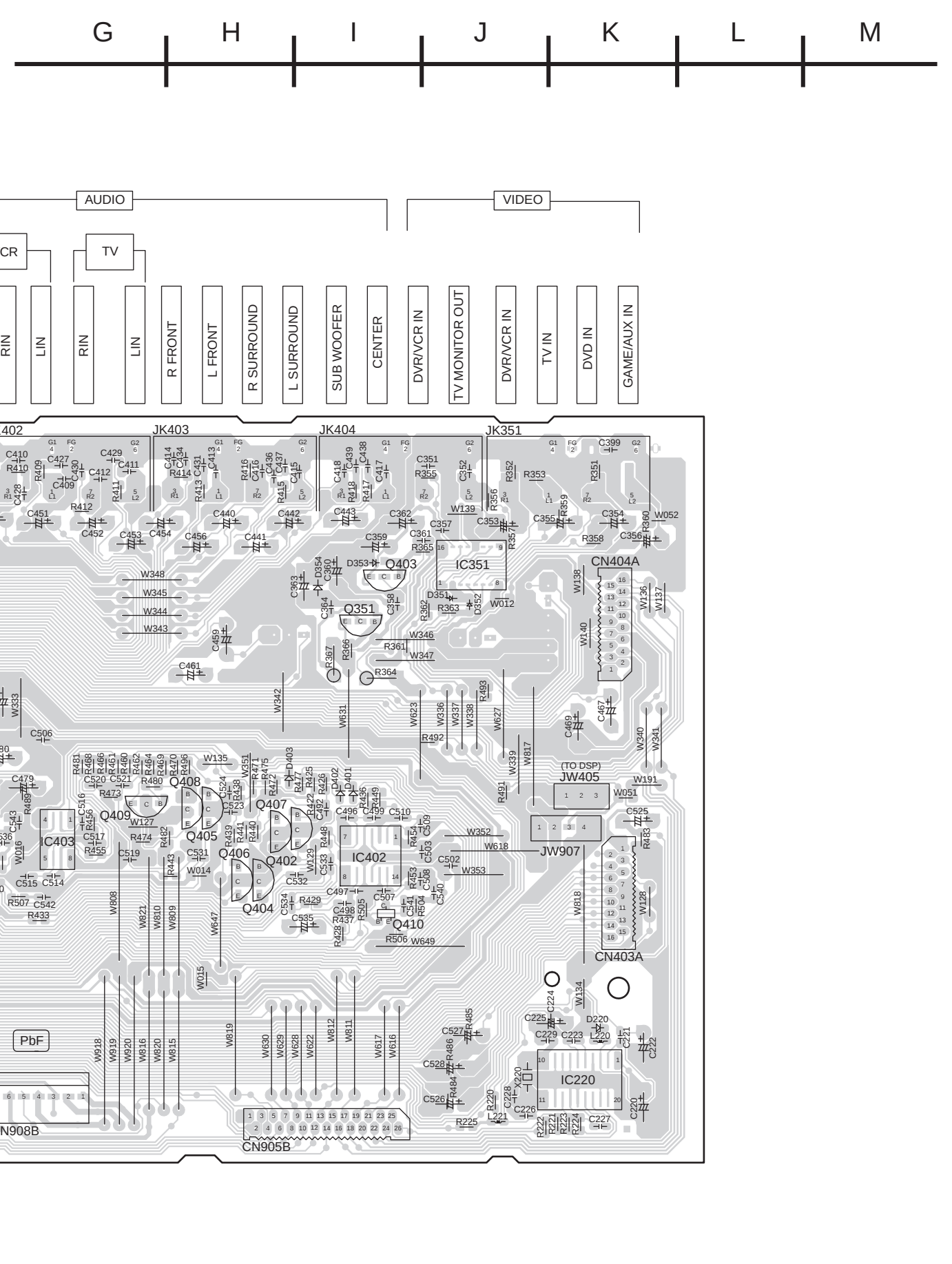


F POWER P.C.B (REPV0011B-M)



B MAIN P.C.B (REPV0011B-M)

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SUB WOOFER
CENTER
DVR/VCR IN
TV MONITOR OUT
DVR/VCR IN
TV IN
DVD IN
GAME/AUX IN
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JK404
JK351
IC351
CN404A
Q403
Q351
IC403
IC402
IC220
CN403A
CN908B
CN905B
JW405
JW907
(TO DSP)
PbF

D PANEL P.C.B (REPV0011B-M)